

FIGURE 1

Amino acid sequence for full length human HDAC-2 [SEQ. ID No. 1]

---MAYSQGGGKKKVCYYYDGDIGNYYYGQGHMPKPHRIRMTHNLLLNYGLYRKMEIYR 60
PHKATAEEMTKYHSDEYIKFLRSIRPDNMSEYSKQMQRFNVGEDCPVFDGLFEFCQLSTG 120
GSVAGAVKLNRRQQTDMAVNWAGGLHHAKKSEASGFCYVNDIVLAILLELLKYHQRVLYIDI 180
DIHHGDGVVEEAFYTTDRVMTVSFHKYGEYFPGTGDRLDIGAGKGKYAVNFPMRDGIDDE 240
SYGQIFKPIISKVMEMYQPSAVVLQCGADSLSGDRLGCFNLTVKGHAKCVEVVKTFNLPL 300
LMLGGGGYTIRNVARCWITYETAVALDCEIPNELPYNDYFEYFGPDFKLHISPSNMNTNQNT 360
PEYMEKIKQRLFENLRMLPHAPGVQMQAIPEDAVHEDSGDEDGEDPDKRISIRASDKRIA 420
CDEEFSDEDEGGRRNVADHKKGAKKARIEEDKKETEDKKTVDVKEEDKSKDNSGEKTD 480
TKGTKSEQLSNP 488

Human cDNA sequence encoding HDAC-2 [SEQ. ID No. 2]

ATGGGATCCATGGCGTACAGTCAAGGAGGCGGCAAAAAAAGTCTGCTACTACTACGAC 60
GGTGATATTGAAAATTATTATTATGGACAGGGTCATCCCATGAAGCCTCATAGAATCCGC 120
ATGACCCATAAATTGCTGTTAAATTATGGCTTATACAGAAAAATGGAAATATATAGGCC 180
CATAAAGCCACTGCCGAAGAAATGACAAAATATCACAGTGATGAGTATATCAAATTTCTA 240
CGGTCAATAAGACCAGATAACATGTCTGAGTATAGTAAGCAGATGCAGAGATTTAATGTT 300
GGAGAAGATTGTCCAGTGTGTTGATGGACTCTTTGAGTTTGTGCTCAGCTCTCAACTGGCGGT 360
TCAGTTGCTGGAGCTGTGAAGTTAAACCGACAACAGACTGATATGGCTGTTAATTGGGCT 420
GGAGGATTACATCATGCTAAGAAATCAGAAGCATCAGGATTCTGTTACGTTAATGATATT 480
GTGCTTGCCATCCTTGAATTACTAAAGTATCATCAGAGAGTCTTATATATTGATATAGAT 540
ATTCATCATGGTGATGGTGTTGAAGAAGCTTTTTATACAACAGATCGTGTAATGACGGTA 600
TCATTCCATAAATATGGGGAATACTTTCTCGGCACAGGAGACTTGAGGGATATTGGTGCT 660
GGAAAAGGCAAATACTATGCTGTCAATTTTCCAATGAGAGATGGTATAGATGATGAGTCA 720
TATGGGCAGATATTTAAGCCTATTATCTCAAAGGTGATGGAGATGTATCAACCTAGTGCT 780
GTGGTATTACAGTGTGGTGACAGACTCATTATCTGGTGATAGACTGGGTTGTTTCAATCTA 840
ACAGTCAAAGGTCATGCTAAATGTGTAGAAGTTGTAAAAAATTTTAACTTACCATTACTG 900
ATGCTTGGAGGAGGTGGCTACACAATCCGTAATGTTGCTCGATGTTGGACATATGAGACT 960
GCAGTTGCCCTTGATTGTGAGATTCCCAATGAGTTGCCATATAATGATTACTTTGAGTAT 1020
TTTGACACAGACTTCAAACCTGCATATTAGTCCTTCAAACATGACAAACCAGAACTCCA 1080
GAATATATGGAAAAGATAAAACAGCGTTTGTGTTGAAAATTTGCGCATGTTACCTCATGCA 1140
CCTGGTGTCAGATGCAAGCTATTCCAGAAGATGCTGTTTATGAAGACAGTGGAGATGAA 1200
GATGGAGAAGATCCAGACAAGAGAATTTCTATTTCGAGCATCAGACAAGCGGATAGCTTGT 1260
GATGAAGAATTCTCAGATTCTGAGGATGAAGGAGAAGGAGGTGGAAGAAATGTGGCTGAT 1320
CATAAGAAAGGAGCAAAGAAAGCTAGAATTGAAGAAGATAAGAAAGAAACAGAGGACAAA 1480
AAAACAGACGTTAAGGAAGAAGATAAATCCAAGGACAACAGTGGTGAAAAACAGATACC 1540
AAAGGAACCAATCAGAACAGCTCAGCAACCCCGGCATCACCATCACCATCACTAA 1597

Amino acid sequence for full length human HDAC-2 with a C-terminal 6x-histidine tag
[SEQ. ID No. 3]
(6x-histidine tag is underlined)

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----MAYSQGGGKKKVCYYYDGDIGNYYYGQGHMPKPHRIRMTHNLLLNYGLYRKMEIYR 60
PHKATAEEMTKYHSDEYIKFLRSIRPDNMSEYSKQMQRFNVGEDCPVFDGLFEFCQLSTG 120
GSVAGAVKLNRRQQTDMAVNWAGGLHHAKKSEASGFCYVNDIVLAILELLKYHQRVLYIDI 180
DIHHGDGVVEEAFYTTDRVMTVSFHKYGEYFPGTGDLRDIGAGKGKYYAVNFPMRDGIDDE 240
SYGQIFKPIISKVMEMYQPSAVVLQCGADSLSGDRLGCFNLTVKGHAKCVEVVKTFNLPL 300
LMLGGGGYTIRNVARCWTYETAVALDCEIPNELPYNDYFEYFGPDFKLHISPSNMTNQNT 360
PEYMEKIKQRLFENLRMLPHAPGVQMAIPEDAVHEDSGDEDGEDPDKRISIRASDKRIA 420
CDEEFSDESEDEGGRRNVADHKKGAKKARIEEDKKETEDKKTVDVKEEDKSKDNSGEKTD 480
TKGTKSEQLSNPGHHHHHH 495

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Amino acid sequence for CLEC fragment of human HDAC-2
[SEQ. ID No. 4]

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-----SQGGGKKKVCYYYDGDIGNYYYGQGHMPKPHRIRMTHNLLLNYGLYRKMEIYR 60
PHKATAEEMTKYHSDEYIKFLRSIRPDNMSEYSKQMQRFNVGEDCPVFDGLFEFCQLSTG 120
GSVAGAVKLNRRQQTDMAVNWAGGLHHAKKSEASGFCYVNDIVLAILELLKYHQRVLYIDI 180
DIHHGDGVVEEAFYTTDRVMTVSFHKYGEYFPGTGDLRDIGAGKGKYYAVNFPMRDGIDDE 240
SYGQIFKPIISKVMEMYQPSAVVLQCGADSLSGDRLGCFNLTVKGHAKCVEVVKTFNLPL 300
LMLGGGGYTIRNVARCWTYETAVALDCEIPNELPYNDYFEYFGPDFKLHISPSNMTNQNT 360
PEYMEKIKQRLFENLRMLPHAPGVQ 381

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Amino acid sequence for immobilized Trypsin fragment of human HDAC-2
[SEQ. ID No. 5]

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----MAYSQGGGKKKVCYYYDGDIGNYYYGQGHMPKPHRIRMTHNLLLNYGLYRKMEIYR 60
PHKATAEEMTKYHSDEYIKFLRSIRPDNMSEYSKQMQRFNVGEDCPVFDGLFEFCQLSTG 120
GSVAGAVKLNRRQQTDMAVNWAGGLHHAKKSEASGFCYVNDIVLAILELLKYHQRVLYIDI 180
DIHHGDGVVEEAFYTTDRVMTVSFHKYGEYFPGTGDLRDIGAGKGKYYAVNFPMRDGIDDE 240
SYGQIFKPIISKVMEMYQPSAVVLQCGADSLSGDRLGCFNLTVKGHAKCVEVVKTFNLPL 300
LMLGGGGYTIRNVARCWTYETAVALDCEIPNELPYNDYFEYFGPDFKLHISPSNMTNQNT 360
PEYMEKIKQRLFENLRMLPHAPGVQMAIPEDAVHEDSGDEDGEDPDKR 405

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FIGURE 2A

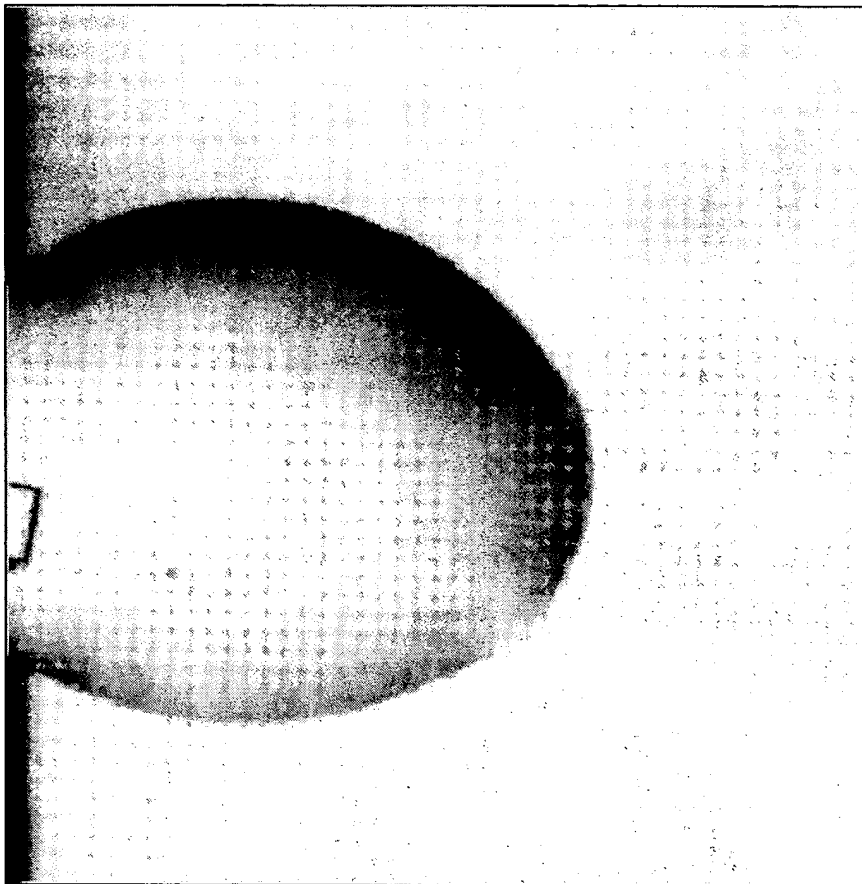


FIGURE 2B

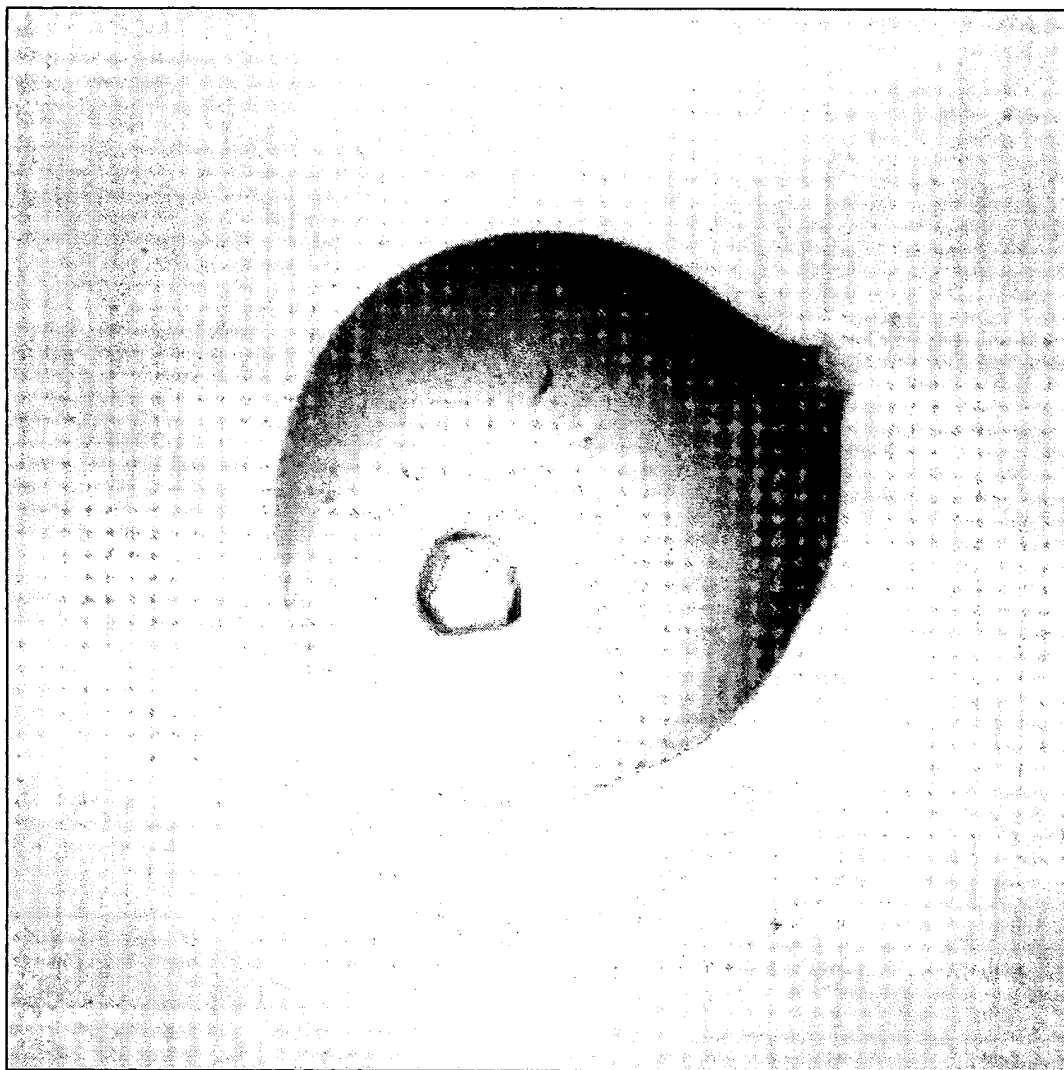


FIGURE 3

LEGEND

Column headings from left to right are (A)'ATOMNumber', (B)'ATOMType', (C)'Amino Acid', (D)'Chain Identifier', (E)'Amino Acid Number', (F)'X Coordinate', (G)'Y Coordinate', (H)'Z Coordinate', (I)'Occupancy' (OCC), (J)'B factor' and (K) 'atom type'.

	A	B	C	D	E	F	G	H	I	J	K
ATOM	1	N	GLY	A	12	-10.934	21.875	-7.883	1.00	33.38	N
ATOM	2	CA	GLY	A	12	-11.554	22.914	-7.002	1.00	32.88	C
ATOM	3	C	GLY	A	12	-10.561	23.520	-6.029	1.00	35.11	C
ATOM	4	O	GLY	A	12	-9.351	23.417	-6.239	1.00	32.05	O
ATOM	5	N	LYS	A	13	-11.079	24.160	-4.978	1.00	34.94	N
ATOM	6	CA	LYS	A	13	-10.259	24.721	-3.902	1.00	35.84	C
ATOM	7	CB	LYS	A	13	-11.097	25.602	-2.975	1.00	35.62	C
ATOM	8	CG	LYS	A	13	-11.498	26.956	-3.561	1.00	39.36	C
ATOM	9	CD	LYS	A	13	-10.965	28.120	-2.737	1.00	45.43	C
ATOM	10	CE	LYS	A	13	-11.669	28.247	-1.394	1.00	50.50	C
ATOM	11	NZ	LYS	A	13	-11.738	29.662	-0.931	1.00	55.04	N
ATOM	12	C	LYS	A	13	-9.640	23.590	-3.095	1.00	37.36	C
ATOM	13	O	LYS	A	13	-10.219	22.508	-2.978	1.00	37.04	O
ATOM	14	N	LYS	A	14	-8.468	23.837	-2.525	1.00	36.44	N
ATOM	15	CA	LYS	A	14	-7.742	22.763	-1.861	1.00	36.93	C
ATOM	16	CB	LYS	A	14	-6.377	22.563	-2.524	1.00	43.40	C
ATOM	17	CG	LYS	A	14	-6.434	21.757	-3.823	1.00	47.48	C
ATOM	18	CD	LYS	A	14	-6.187	22.633	-5.041	1.00	53.17	C
ATOM	19	CE	LYS	A	14	-5.489	21.861	-6.154	1.00	53.51	C
ATOM	20	NZ	LYS	A	14	-4.068	21.523	-5.834	1.00	55.26	N
ATOM	21	C	LYS	A	14	-7.606	22.961	-0.355	1.00	33.27	C
ATOM	22	O	LYS	A	14	-7.598	24.094	0.135	1.00	30.92	O
ATOM	23	N	LYS	A	15	-7.522	21.850	0.372	1.00	28.55	N
ATOM	24	CA	LYS	A	15	-7.203	21.894	1.794	1.00	30.03	C
ATOM	25	CB	LYS	A	15	-7.570	20.584	2.493	1.00	31.98	C
ATOM	26	CG	LYS	A	15	-7.978	20.777	3.941	1.00	38.76	C
ATOM	27	CD	LYS	A	15	-7.800	19.517	4.765	1.00	41.81	C
ATOM	28	CE	LYS	A	15	-7.132	19.840	6.094	1.00	45.73	C
ATOM	29	NZ	LYS	A	15	-7.614	18.967	7.199	1.00	48.16	N
ATOM	30	C	LYS	A	15	-5.715	22.188	1.968	1.00	26.95	C
ATOM	31	O	LYS	A	15	-4.867	21.492	1.409	1.00	24.84	O
ATOM	32	N	VAL	A	16	-5.414	23.227	2.739	1.00	26.40	N
ATOM	33	CA	VAL	A	16	-4.033	23.639	2.992	1.00	23.42	C
ATOM	34	CB	VAL	A	16	-3.786	25.104	2.528	1.00	21.46	C
ATOM	35	CG1	VAL	A	16	-2.358	25.543	2.832	1.00	21.08	C
ATOM	36	CG2	VAL	A	16	-4.087	25.271	1.034	1.00	24.77	C
ATOM	37	C	VAL	A	16	-3.712	23.513	4.480	1.00	20.74	C
ATOM	38	O	VAL	A	16	-4.437	24.045	5.325	1.00	20.94	O
ATOM	39	N	CYS	A	17	-2.629	22.806	4.792	1.00	21.17	N
ATOM	40	CA	CYS	A	17	-2.110	22.737	6.152	1.00	18.02	C
ATOM	41	CB	CYS	A	17	-1.921	21.291	6.596	1.00	26.27	C
ATOM	42	SG	CYS	A	17	-3.490	20.425	6.865	1.00	32.95	S
ATOM	43	C	CYS	A	17	-0.785	23.484	6.181	1.00	20.58	C
ATOM	44	O	CYS	A	17	0.053	23.298	5.304	1.00	21.14	O
ATOM	45	N	TYR	A	18	-0.606	24.312	7.200	1.00	16.48	N
ATOM	46	CA	TYR	A	18	0.499	25.260	7.253	1.00	15.92	C
ATOM	47	CB	TYR	A	18	-0.088	26.667	7.066	1.00	18.52	C

ATOM	48	CG	TYR	A	18	0.783	27.857	7.402	1.00	17.99	C
ATOM	49	CD1	TYR	A	18	1.004	28.228	8.725	1.00	21.27	C
ATOM	50	CE1	TYR	A	18	1.775	29.334	9.039	1.00	22.51	C
ATOM	51	CZ	TYR	A	18	2.325	30.094	8.025	1.00	20.40	C
ATOM	52	OH	TYR	A	18	3.080	31.191	8.351	1.00	24.81	O
ATOM	53	CE2	TYR	A	18	2.110	29.763	6.701	1.00	20.69	C
ATOM	54	CD2	TYR	A	18	1.331	28.647	6.395	1.00	20.51	C
ATOM	55	C	TYR	A	18	1.271	25.095	8.567	1.00	17.76	C
ATOM	56	O	TYR	A	18	0.679	25.031	9.654	1.00	16.61	O
ATOM	57	N	TYR	A	19	2.598	25.025	8.458	1.00	15.66	N
ATOM	58	CA	TYR	A	19	3.449	24.724	9.601	1.00	16.08	C
ATOM	59	CB	TYR	A	19	4.357	23.528	9.300	1.00	19.83	C
ATOM	60	CG	TYR	A	19	3.556	22.260	9.158	1.00	23.49	C
ATOM	61	CD1	TYR	A	19	2.996	21.908	7.934	1.00	24.37	C
ATOM	62	CE1	TYR	A	19	2.233	20.765	7.798	1.00	28.59	C
ATOM	63	CZ	TYR	A	19	2.021	19.949	8.893	1.00	28.87	C
ATOM	64	OH	TYR	A	19	1.263	18.815	8.732	1.00	33.13	O
ATOM	65	CE2	TYR	A	19	2.559	20.270	10.128	1.00	26.44	C
ATOM	66	CD2	TYR	A	19	3.322	21.429	10.260	1.00	25.61	C
ATOM	67	C	TYR	A	19	4.269	25.925	10.029	1.00	20.65	C
ATOM	68	O	TYR	A	19	4.959	26.548	9.220	1.00	21.70	O
ATOM	69	N	TYR	A	20	4.175	26.245	11.311	1.00	19.23	N
ATOM	70	CA	TYR	A	20	4.866	27.402	11.852	1.00	20.20	C
ATOM	71	CB	TYR	A	20	4.019	28.661	11.654	1.00	18.21	C
ATOM	72	CG	TYR	A	20	4.614	29.908	12.270	1.00	24.20	C
ATOM	73	CD1	TYR	A	20	4.075	30.451	13.440	1.00	22.89	C
ATOM	74	CE1	TYR	A	20	4.614	31.605	14.016	1.00	24.32	C
ATOM	75	CZ	TYR	A	20	5.699	32.219	13.416	1.00	25.74	C
ATOM	76	OH	TYR	A	20	6.229	33.351	13.978	1.00	26.57	O
ATOM	77	CE2	TYR	A	20	6.257	31.699	12.254	1.00	21.08	C
ATOM	78	CD2	TYR	A	20	5.716	30.546	11.686	1.00	18.99	C
ATOM	79	C	TYR	A	20	5.181	27.215	13.322	1.00	20.24	C
ATOM	80	O	TYR	A	20	4.327	26.789	14.103	1.00	20.13	O
ATOM	81	N	ASP	A	21	6.419	27.528	13.686	1.00	20.92	N
ATOM	82	CA	ASP	A	21	6.807	27.609	15.084	1.00	21.80	C
ATOM	83	CB	ASP	A	21	7.927	26.620	15.411	1.00	24.77	C
ATOM	84	CG	ASP	A	21	8.132	26.460	16.901	1.00	27.98	C
ATOM	85	OD1	ASP	A	21	8.099	25.314	17.401	1.00	29.26	O
ATOM	86	OD2	ASP	A	21	8.307	27.436	17.656	1.00	28.43	O
ATOM	87	C	ASP	A	21	7.237	29.023	15.423	1.00	26.07	C
ATOM	88	O	ASP	A	21	8.187	29.545	14.836	1.00	26.99	O
ATOM	89	N	GLY	A	22	6.540	29.630	16.384	1.00	27.58	N
ATOM	90	CA	GLY	A	22	6.792	31.004	16.797	1.00	31.26	C
ATOM	91	C	GLY	A	22	8.191	31.288	17.321	1.00	33.32	C
ATOM	92	O	GLY	A	22	8.607	32.448	17.384	1.00	39.03	O
ATOM	93	N	ASP	A	23	8.916	30.231	17.684	1.00	26.95	N
ATOM	94	CA	ASP	A	23	10.280	30.350	18.200	1.00	28.38	C
ATOM	95	CB	ASP	A	23	10.626	29.143	19.079	1.00	31.55	C
ATOM	96	CG	ASP	A	23	9.761	29.055	20.324	1.00	40.64	C
ATOM	97	OD1	ASP	A	23	9.641	27.941	20.888	1.00	43.66	O
ATOM	98	OD2	ASP	A	23	9.166	30.041	20.815	1.00	40.36	O
ATOM	99	C	ASP	A	23	11.331	30.495	17.099	1.00	26.66	C
ATOM	100	O	ASP	A	23	12.457	30.933	17.373	1.00	24.70	O
ATOM	101	N	ILE	A	24	10.971	30.119	15.868	1.00	26.24	N
ATOM	102	CA	ILE	A	24	11.893	30.169	14.724	1.00	27.74	C
ATOM	103	CB	ILE	A	24	11.192	29.692	13.407	1.00	31.85	C
ATOM	104	CG1	ILE	A	24	12.223	29.270	12.353	1.00	33.00	C
ATOM	105	CD1	ILE	A	24	12.745	27.849	12.528	1.00	36.31	C
ATOM	106	CG2	ILE	A	24	10.254	30.772	12.846	1.00	30.58	C
ATOM	107	C	ILE	A	24	12.554	31.536	14.522	1.00	25.65	C
ATOM	108	O	ILE	A	24	13.734	31.611	14.184	1.00	27.69	O
ATOM	109	N	GLY	A	25	11.788	32.606	14.730	1.00	27.57	N
ATOM	110	CA	GLY	A	25	12.267	33.960	14.510	1.00	28.06	C

ATOM	111	C	GLY	A	25	13.326	34.442	15.486	1.00	32.62	C
ATOM	112	O	GLY	A	25	13.925	35.491	15.266	1.00	33.18	O
ATOM	113	N	ASN	A	26	13.554	33.680	16.556	1.00	29.29	N
ATOM	114	CA	ASN	A	26	14.520	34.047	17.588	1.00	32.21	C
ATOM	115	CB	ASN	A	26	14.039	33.584	18.969	1.00	36.54	C
ATOM	116	CG	ASN	A	26	12.740	34.256	19.399	1.00	38.26	C
ATOM	117	OD1	ASN	A	26	12.432	35.374	18.984	1.00	40.40	O
ATOM	118	ND2	ASN	A	26	11.975	33.572	20.243	1.00	41.23	N
ATOM	119	C	ASN	A	26	15.936	33.524	17.329	1.00	29.78	C
ATOM	120	O	ASN	A	26	16.870	33.858	18.062	1.00	29.28	O
ATOM	121	N	TYR	A	27	16.093	32.694	16.302	1.00	22.93	N
ATOM	122	CA	TYR	A	27	17.409	32.170	15.957	1.00	24.38	C
ATOM	123	CB	TYR	A	27	17.289	30.822	15.240	1.00	23.89	C
ATOM	124	CG	TYR	A	27	16.742	29.744	16.153	1.00	25.58	C
ATOM	125	CD1	TYR	A	27	15.384	29.428	16.155	1.00	26.62	C
ATOM	126	CE1	TYR	A	27	14.873	28.456	17.005	1.00	27.47	C
ATOM	127	CZ	TYR	A	27	15.717	27.795	17.875	1.00	30.04	C
ATOM	128	OH	TYR	A	27	15.214	26.829	18.720	1.00	30.17	O
ATOM	129	CE2	TYR	A	27	17.068	28.100	17.904	1.00	28.43	C
ATOM	130	CD2	TYR	A	27	17.573	29.070	17.044	1.00	25.97	C
ATOM	131	C	TYR	A	27	18.163	33.204	15.130	1.00	25.10	C
ATOM	132	O	TYR	A	27	17.574	33.889	14.301	1.00	25.59	O
ATOM	133	N	TYR	A	28	19.464	33.316	15.372	1.00	25.63	N
ATOM	134	CA	TYR	A	28	20.260	34.403	14.817	1.00	26.96	C
ATOM	135	CB	TYR	A	28	20.485	35.464	15.901	1.00	26.97	C
ATOM	136	CG	TYR	A	28	21.145	36.749	15.444	1.00	31.50	C
ATOM	137	CD1	TYR	A	28	20.567	37.549	14.458	1.00	32.89	C
ATOM	138	CE1	TYR	A	28	21.175	38.745	14.052	1.00	37.38	C
ATOM	139	CZ	TYR	A	28	22.365	39.140	14.648	1.00	38.32	C
ATOM	140	OH	TYR	A	28	22.977	40.311	14.261	1.00	42.88	O
ATOM	141	CE2	TYR	A	28	22.950	38.363	15.631	1.00	37.22	C
ATOM	142	CD2	TYR	A	28	22.338	37.178	16.026	1.00	33.60	C
ATOM	143	C	TYR	A	28	21.591	33.876	14.300	1.00	26.09	C
ATOM	144	O	TYR	A	28	22.396	33.350	15.068	1.00	25.01	O
ATOM	145	N	TYR	A	29	21.816	34.018	12.996	1.00	23.10	N
ATOM	146	CA	TYR	A	29	23.039	33.524	12.365	1.00	24.24	C
ATOM	147	CB	TYR	A	29	22.902	33.517	10.842	1.00	20.78	C
ATOM	148	CG	TYR	A	29	22.228	32.300	10.239	1.00	21.17	C
ATOM	149	CD1	TYR	A	29	22.904	31.505	9.312	1.00	20.94	C
ATOM	150	CE1	TYR	A	29	22.299	30.392	8.732	1.00	21.73	C
ATOM	151	CZ	TYR	A	29	20.996	30.057	9.068	1.00	20.67	C
ATOM	152	OH	TYR	A	29	20.414	28.959	8.465	1.00	18.73	O
ATOM	153	CE2	TYR	A	29	20.292	30.826	9.982	1.00	22.03	C
ATOM	154	CD2	TYR	A	29	20.911	31.955	10.564	1.00	22.31	C
ATOM	155	C	TYR	A	29	24.280	34.331	12.759	1.00	24.93	C
ATOM	156	O	TYR	A	29	25.397	33.825	12.686	1.00	30.10	O
ATOM	157	N	GLY	A	30	24.083	35.581	13.170	1.00	25.85	N
ATOM	158	CA	GLY	A	30	25.185	36.421	13.601	1.00	24.94	C
ATOM	159	C	GLY	A	30	25.193	37.753	12.891	1.00	27.68	C
ATOM	160	O	GLY	A	30	24.529	37.924	11.865	1.00	24.31	O
ATOM	161	N	GLN	A	31	25.954	38.698	13.437	1.00	32.35	N
ATOM	162	CA	GLN	A	31	26.024	40.056	12.903	1.00	36.84	C
ATOM	163	CB	GLN	A	31	26.956	40.917	13.761	1.00	42.74	C
ATOM	164	CG	GLN	A	31	26.826	42.411	13.524	1.00	47.99	C
ATOM	165	CD	GLN	A	31	27.419	43.229	14.657	1.00	53.94	C
ATOM	166	OE1	GLN	A	31	28.638	43.245	14.847	1.00	54.68	O
ATOM	167	NE2	GLN	A	31	26.560	43.904	15.416	1.00	54.72	N
ATOM	168	C	GLN	A	31	26.490	40.067	11.451	1.00	33.05	C
ATOM	169	O	GLN	A	31	27.519	39.483	11.120	1.00	34.31	O
ATOM	170	N	GLY	A	32	25.718	40.723	10.594	1.00	31.96	N
ATOM	171	CA	GLY	A	32	26.056	40.827	9.187	1.00	32.47	C
ATOM	172	C	GLY	A	32	25.672	39.645	8.305	1.00	29.76	C
ATOM	173	O	GLY	A	32	25.779	39.743	7.086	1.00	28.79	O

ATOM	174	N	HIS	A	33	25.237	38.532	8.898	1.00	27.05	N
ATOM	175	CA	HIS	A	33	24.827	37.369	8.102	1.00	24.71	C
ATOM	176	CB	HIS	A	33	24.767	36.099	8.952	1.00	23.18	C
ATOM	177	CG	HIS	A	33	24.859	34.844	8.144	1.00	22.69	C
ATOM	178	ND1	HIS	A	33	23.854	34.432	7.292	1.00	18.66	N
ATOM	179	CE1	HIS	A	33	24.223	33.313	6.695	1.00	22.66	C
ATOM	180	NE2	HIS	A	33	25.430	32.986	7.125	1.00	21.22	N
ATOM	181	CD2	HIS	A	33	25.851	33.930	8.029	1.00	22.71	C
ATOM	182	C	HIS	A	33	23.476	37.619	7.422	1.00	21.92	C
ATOM	183	O	HIS	A	33	22.515	37.998	8.088	1.00	22.85	O
ATOM	184	N	PRO	A	34	23.405	37.422	6.103	1.00	22.53	N
ATOM	185	CA	PRO	A	34	22.191	37.750	5.345	1.00	22.87	C
ATOM	186	CB	PRO	A	34	22.626	37.581	3.883	1.00	25.21	C
ATOM	187	CG	PRO	A	34	23.781	36.651	3.927	1.00	22.98	C
ATOM	188	CD	PRO	A	34	24.477	36.903	5.232	1.00	21.75	C
ATOM	189	C	PRO	A	34	20.980	36.866	5.653	1.00	17.77	C
ATOM	190	O	PRO	A	34	19.853	37.304	5.400	1.00	22.49	O
ATOM	191	N	MET	A	35	21.197	35.666	6.186	1.00	16.87	N
ATOM	192	CA	MET	A	35	20.076	34.770	6.474	1.00	21.27	C
ATOM	193	CB	MET	A	35	20.513	33.303	6.462	1.00	19.13	C
ATOM	194	CG	MET	A	35	19.398	32.310	6.801	1.00	22.02	C
ATOM	195	SD	MET	A	35	17.972	32.372	5.677	1.00	26.90	S
ATOM	196	CE	MET	A	35	18.493	31.246	4.395	1.00	23.80	C
ATOM	197	C	MET	A	35	19.447	35.148	7.814	1.00	19.95	C
ATOM	198	O	MET	A	35	20.097	35.075	8.861	1.00	20.46	O
ATOM	199	N	LYS	A	36	18.181	35.552	7.766	1.00	19.74	N
ATOM	200	CA	LYS	A	36	17.497	36.083	8.937	1.00	18.06	C
ATOM	201	CB	LYS	A	36	17.205	37.577	8.742	1.00	20.07	C
ATOM	202	CG	LYS	A	36	18.481	38.434	8.710	1.00	25.82	C
ATOM	203	CD	LYS	A	36	18.240	39.814	8.146	1.00	30.73	C
ATOM	204	CE	LYS	A	36	19.559	40.556	7.986	1.00	34.11	C
ATOM	205	NZ	LYS	A	36	19.345	42.024	7.846	1.00	42.02	N
ATOM	206	C	LYS	A	36	16.210	35.301	9.194	1.00	19.19	C
ATOM	207	O	LYS	A	36	15.195	35.574	8.562	1.00	17.85	O
ATOM	208	N	PRO	A	37	16.256	34.316	10.098	1.00	19.64	N
ATOM	209	CA	PRO	A	37	15.077	33.498	10.423	1.00	18.87	C
ATOM	210	CB	PRO	A	37	15.569	32.650	11.595	1.00	19.36	C
ATOM	211	CG	PRO	A	37	17.031	32.469	11.283	1.00	18.04	C
ATOM	212	CD	PRO	A	37	17.447	33.867	10.848	1.00	19.76	C
ATOM	213	C	PRO	A	37	13.837	34.304	10.807	1.00	21.11	C
ATOM	214	O	PRO	A	37	12.721	33.817	10.635	1.00	19.76	O
ATOM	215	N	HIS	A	38	14.056	35.520	11.305	1.00	20.44	N
ATOM	216	CA	HIS	A	38	13.014	36.514	11.574	1.00	24.68	C
ATOM	217	CB	HIS	A	38	13.706	37.832	11.959	1.00	30.82	C
ATOM	218	CG	HIS	A	38	12.774	38.946	12.313	1.00	37.66	C
ATOM	219	ND1	HIS	A	38	12.862	40.196	11.737	1.00	39.92	N
ATOM	220	CE1	HIS	A	38	11.928	40.979	12.245	1.00	40.67	C
ATOM	221	NE2	HIS	A	38	11.244	40.286	13.137	1.00	42.93	N
ATOM	222	CD2	HIS	A	38	11.754	39.012	13.201	1.00	42.01	C
ATOM	223	C	HIS	A	38	12.051	36.727	10.396	1.00	21.58	C
ATOM	224	O	HIS	A	38	10.869	37.030	10.594	1.00	19.93	O
ATOM	225	N	ARG	A	39	12.540	36.556	9.168	1.00	19.61	N
ATOM	226	CA	ARG	A	39	11.668	36.671	7.994	1.00	15.49	C
ATOM	227	CB	ARG	A	39	12.465	36.510	6.688	1.00	17.51	C
ATOM	228	CG	ARG	A	39	12.875	35.079	6.395	1.00	16.16	C
ATOM	229	CD	ARG	A	39	14.171	34.884	5.591	1.00	19.34	C
ATOM	230	NE	ARG	A	39	14.395	33.444	5.551	1.00	18.36	N
ATOM	231	CZ	ARG	A	39	14.563	32.723	4.462	1.00	22.50	C
ATOM	232	NH1	ARG	A	39	14.641	33.302	3.266	1.00	21.04	N
ATOM	233	NH2	ARG	A	39	14.679	31.406	4.577	1.00	18.37	N
ATOM	234	C	ARG	A	39	10.463	35.701	8.027	1.00	15.22	C
ATOM	235	O	ARG	A	39	9.421	36.001	7.453	1.00	16.67	O
ATOM	236	N	ILE	A	40	10.610	34.549	8.687	1.00	16.84	N

ATOM	237	CA	ILE	A	40	9.507	33.577	8.802	1.00	15.88	C
ATOM	238	CB	ILE	A	40	10.006	32.200	9.352	1.00	18.90	C
ATOM	239	CG1	ILE	A	40	11.233	31.682	8.582	1.00	19.03	C
ATOM	240	CD1	ILE	A	40	11.060	31.608	7.057	1.00	22.57	C
ATOM	241	CG2	ILE	A	40	8.868	31.145	9.357	1.00	19.23	C
ATOM	242	C	ILE	A	40	8.408	34.135	9.708	1.00	19.64	C
ATOM	243	O	ILE	A	40	7.212	33.972	9.439	1.00	17.38	O
ATOM	244	N	ARG	A	41	8.831	34.772	10.796	1.00	17.65	N
ATOM	245	CA	ARG	A	41	7.915	35.409	11.736	1.00	18.92	C
ATOM	246	CB	ARG	A	41	8.670	35.883	12.984	1.00	17.52	C
ATOM	247	CG	ARG	A	41	7.772	36.434	14.105	1.00	26.88	C
ATOM	248	CD	ARG	A	41	8.451	36.496	15.481	1.00	33.14	C
ATOM	249	NE	ARG	A	41	9.806	37.042	15.396	1.00	41.48	N
ATOM	250	CZ	ARG	A	41	10.624	37.237	16.431	1.00	46.61	C
ATOM	251	NH1	ARG	A	41	10.243	36.932	17.667	1.00	46.68	N
ATOM	252	NH2	ARG	A	41	11.836	37.742	16.225	1.00	47.05	N
ATOM	253	C	ARG	A	41	7.198	36.578	11.064	1.00	17.60	C
ATOM	254	O	ARG	A	41	6.000	36.766	11.261	1.00	17.02	O
ATOM	255	N	MET	A	42	7.936	37.353	10.266	1.00	17.83	N
ATOM	256	CA	MET	A	42	7.349	38.440	9.475	1.00	17.23	C
ATOM	257	CB	MET	A	42	8.429	39.170	8.683	1.00	17.73	C
ATOM	258	CG	MET	A	42	9.261	40.137	9.494	1.00	24.20	C
ATOM	259	SD	MET	A	42	10.568	40.862	8.460	1.00	29.51	S
ATOM	260	CE	MET	A	42	9.588	41.776	7.275	1.00	17.90	C
ATOM	261	C	MET	A	42	6.282	37.935	8.514	1.00	18.80	C
ATOM	262	O	MET	A	42	5.180	38.491	8.447	1.00	16.34	O
ATOM	263	N	THR	A	43	6.622	36.888	7.758	1.00	17.87	N
ATOM	264	CA	THR	A	43	5.676	36.247	6.847	1.00	16.55	C
ATOM	265	CB	THR	A	43	6.324	35.000	6.218	1.00	17.33	C
ATOM	266	OG1	THR	A	43	7.452	35.392	5.431	1.00	17.62	O
ATOM	267	CG2	THR	A	43	5.373	34.333	5.232	1.00	16.92	C
ATOM	268	C	THR	A	43	4.401	35.839	7.580	1.00	15.77	C
ATOM	269	O	THR	A	43	3.293	36.169	7.148	1.00	17.70	O
ATOM	270	N	HIS	A	44	4.569	35.113	8.682	1.00	16.86	N
ATOM	271	CA	HIS	A	44	3.444	34.637	9.479	1.00	18.12	C
ATOM	272	CB	HIS	A	44	3.945	33.839	10.679	1.00	18.26	C
ATOM	273	CG	HIS	A	44	2.851	33.160	11.440	1.00	21.55	C
ATOM	274	ND1	HIS	A	44	2.139	32.098	10.925	1.00	20.89	N
ATOM	275	CE1	HIS	A	44	1.238	31.705	11.808	1.00	22.53	C
ATOM	276	NE2	HIS	A	44	1.340	32.474	12.878	1.00	21.32	N
ATOM	277	CD2	HIS	A	44	2.338	33.396	12.671	1.00	23.23	C
ATOM	278	C	HIS	A	44	2.568	35.783	9.988	1.00	14.96	C
ATOM	279	O	HIS	A	44	1.347	35.714	9.925	1.00	15.26	O
ATOM	280	N	ASN	A	45	3.206	36.827	10.499	1.00	17.89	N
ATOM	281	CA	ASN	A	45	2.468	37.982	11.020	1.00	18.49	C
ATOM	282	CB	ASN	A	45	3.421	38.954	11.701	1.00	19.18	C
ATOM	283	CG	ASN	A	45	2.690	40.006	12.499	1.00	19.96	C
ATOM	284	OD1	ASN	A	45	2.550	41.137	12.058	1.00	20.10	O
ATOM	285	ND2	ASN	A	45	2.197	39.627	13.672	1.00	21.68	N
ATOM	286	C	ASN	A	45	1.652	38.694	9.944	1.00	16.41	C
ATOM	287	O	ASN	A	45	0.512	39.108	10.178	1.00	16.69	O
ATOM	288	N	LEU	A	46	2.231	38.824	8.754	1.00	15.77	N
ATOM	289	CA	LEU	A	46	1.524	39.445	7.638	1.00	18.43	C
ATOM	290	CB	LEU	A	46	2.483	39.657	6.459	1.00	18.86	C
ATOM	291	CG	LEU	A	46	1.972	40.468	5.268	1.00	20.80	C
ATOM	292	CD1	LEU	A	46	1.292	41.790	5.699	1.00	22.33	C
ATOM	293	CD2	LEU	A	46	3.128	40.721	4.310	1.00	16.54	C
ATOM	294	C	LEU	A	46	0.325	38.587	7.238	1.00	20.27	C
ATOM	295	O	LEU	A	46	-0.786	39.082	7.072	1.00	16.74	O
ATOM	296	N	LEU	A	47	0.582	37.288	7.107	1.00	18.76	N
ATOM	297	CA	LEU	A	47	-0.410	36.252	6.857	1.00	23.38	C
ATOM	298	CB	LEU	A	47	0.297	34.916	7.069	1.00	29.13	C
ATOM	299	CG	LEU	A	47	0.089	33.722	6.182	1.00	34.93	C

ATOM	300	CD1	LEU	A	47	1.443	33.224	5.721	1.00	30.00	C
ATOM	301	CD2	LEU	A	47	-0.595	32.700	7.045	1.00	36.15	C
ATOM	302	C	LEU	A	47	-1.605	36.319	7.804	1.00	22.40	C
ATOM	303	O	LEU	A	47	-2.768	36.278	7.372	1.00	22.88	O
ATOM	304	N	LEU	A	48	-1.310	36.401	9.098	1.00	21.20	N
ATOM	305	CA	LEU	A	48	-2.340	36.469	10.133	1.00	23.56	C
ATOM	306	CB	LEU	A	48	-1.713	36.414	11.535	1.00	22.57	C
ATOM	307	CG	LEU	A	48	-1.069	35.092	11.967	1.00	26.40	C
ATOM	308	CD1	LEU	A	48	-0.596	35.173	13.410	1.00	28.25	C
ATOM	309	CD2	LEU	A	48	-2.007	33.898	11.763	1.00	30.15	C
ATOM	310	C	LEU	A	48	-3.182	37.729	9.994	1.00	22.55	C
ATOM	311	O	LEU	A	48	-4.405	37.690	10.154	1.00	20.82	O
ATOM	312	N	ASN	A	49	-2.525	38.842	9.680	1.00	20.25	N
ATOM	313	CA	ASN	A	49	-3.223	40.118	9.578	1.00	20.48	C
ATOM	314	CB	ASN	A	49	-2.251	41.277	9.754	1.00	18.74	C
ATOM	315	CG	ASN	A	49	-1.943	41.519	11.205	1.00	21.43	C
ATOM	316	OD1	ASN	A	49	-2.803	41.994	11.954	1.00	19.85	O
ATOM	317	ND2	ASN	A	49	-0.738	41.148	11.631	1.00	17.29	N
ATOM	318	C	ASN	A	49	-4.084	40.279	8.339	1.00	24.12	C
ATOM	319	O	ASN	A	49	-5.007	41.096	8.318	1.00	22.21	O
ATOM	320	N	TYR	A	50	-3.785	39.485	7.317	1.00	19.55	N
ATOM	321	CA	TYR	A	50	-4.646	39.376	6.150	1.00	24.04	C
ATOM	322	CB	TYR	A	50	-3.843	38.846	4.969	1.00	18.75	C
ATOM	323	CG	TYR	A	50	-3.283	39.901	4.042	1.00	19.07	C
ATOM	324	CD1	TYR	A	50	-4.124	40.687	3.259	1.00	17.18	C
ATOM	325	CE1	TYR	A	50	-3.611	41.634	2.385	1.00	18.52	C
ATOM	326	CZ	TYR	A	50	-2.241	41.788	2.283	1.00	15.23	C
ATOM	327	OH	TYR	A	50	-1.726	42.714	1.422	1.00	17.51	O
ATOM	328	CE2	TYR	A	50	-1.384	41.007	3.039	1.00	17.62	C
ATOM	329	CD2	TYR	A	50	-1.909	40.076	3.916	1.00	14.97	C
ATOM	330	C	TYR	A	50	-5.838	38.448	6.415	1.00	24.79	C
ATOM	331	O	TYR	A	50	-6.763	38.365	5.603	1.00	28.69	O
ATOM	332	N	GLY	A	51	-5.801	37.745	7.542	1.00	22.50	N
ATOM	333	CA	GLY	A	51	-6.876	36.851	7.948	1.00	25.51	C
ATOM	334	C	GLY	A	51	-6.859	35.475	7.299	1.00	27.37	C
ATOM	335	O	GLY	A	51	-7.883	34.786	7.272	1.00	28.23	O
ATOM	336	N	LEU	A	52	-5.697	35.057	6.798	1.00	23.48	N
ATOM	337	CA	LEU	A	52	-5.590	33.787	6.076	1.00	21.82	C
ATOM	338	CB	LEU	A	52	-4.338	33.770	5.182	1.00	22.63	C
ATOM	339	CG	LEU	A	52	-4.271	34.858	4.096	1.00	25.27	C
ATOM	340	CD1	LEU	A	52	-2.984	34.748	3.273	1.00	26.86	C
ATOM	341	CD2	LEU	A	52	-5.483	34.843	3.177	1.00	26.70	C
ATOM	342	C	LEU	A	52	-5.662	32.553	6.974	1.00	22.25	C
ATOM	343	O	LEU	A	52	-5.921	31.443	6.490	1.00	27.62	O
ATOM	344	N	TYR	A	53	-5.468	32.750	8.278	1.00	21.13	N
ATOM	345	CA	TYR	A	53	-5.650	31.688	9.270	1.00	26.98	C
ATOM	346	CB	TYR	A	53	-5.264	32.171	10.678	1.00	28.47	C
ATOM	347	CG	TYR	A	53	-6.126	33.296	11.219	1.00	31.97	C
ATOM	348	CD1	TYR	A	53	-7.239	33.029	12.018	1.00	35.07	C
ATOM	349	CE1	TYR	A	53	-8.038	34.064	12.514	1.00	35.75	C
ATOM	350	CZ	TYR	A	53	-7.712	35.378	12.214	1.00	37.70	C
ATOM	351	OH	TYR	A	53	-8.486	36.407	12.695	1.00	40.14	O
ATOM	352	CE2	TYR	A	53	-6.607	35.665	11.428	1.00	34.10	C
ATOM	353	CD2	TYR	A	53	-5.823	34.628	10.937	1.00	30.37	C
ATOM	354	C	TYR	A	53	-7.081	31.143	9.273	1.00	29.52	C
ATOM	355	O	TYR	A	53	-7.314	30.002	9.668	1.00	31.10	O
ATOM	356	N	ARG	A	54	-8.030	31.965	8.832	1.00	29.73	N
ATOM	357	CA	ARG	A	54	-9.429	31.546	8.702	1.00	33.07	C
ATOM	358	CB	ARG	A	54	-10.325	32.753	8.402	1.00	38.00	C
ATOM	359	CG	ARG	A	54	-10.607	33.640	9.605	1.00	45.73	C
ATOM	360	CD	ARG	A	54	-11.625	34.738	9.339	1.00	53.38	C
ATOM	361	NE	ARG	A	54	-11.010	36.066	9.348	1.00	59.05	N
ATOM	362	CZ	ARG	A	54	-11.575	37.168	8.859	1.00	62.15	C

ATOM	363	NH1	ARG	A	54	-12.784	37.124	8.309	1.00	63.52	N
ATOM	364	NH2	ARG	A	54	-10.925	38.323	8.920	1.00	62.31	N
ATOM	365	C	ARG	A	54	-9.650	30.468	7.630	1.00	33.81	C
ATOM	366	O	ARG	A	54	-10.668	29.772	7.655	1.00	32.94	O
ATOM	367	N	LYS	A	55	-8.705	30.333	6.699	1.00	29.14	N
ATOM	368	CA	LYS	A	55	-8.886	29.469	5.530	1.00	30.85	C
ATOM	369	CB	LYS	A	55	-8.616	30.244	4.232	1.00	35.92	C
ATOM	370	CG	LYS	A	55	-9.214	31.644	4.183	1.00	42.07	C
ATOM	371	CD	LYS	A	55	-10.415	31.706	3.257	1.00	45.41	C
ATOM	372	CE	LYS	A	55	-10.921	33.136	3.113	1.00	51.15	C
ATOM	373	NZ	LYS	A	55	-11.676	33.594	4.321	1.00	51.35	N
ATOM	374	C	LYS	A	55	-8.036	28.198	5.550	1.00	28.94	C
ATOM	375	O	LYS	A	55	-8.193	27.332	4.685	1.00	27.40	O
ATOM	376	N	MET	A	56	-7.135	28.084	6.520	1.00	28.92	N
ATOM	377	CA	MET	A	56	-6.244	26.923	6.579	1.00	28.44	C
ATOM	378	CB	MET	A	56	-4.923	27.206	5.849	1.00	31.07	C
ATOM	379	CG	MET	A	56	-4.334	28.556	6.139	1.00	31.85	C
ATOM	380	SD	MET	A	56	-2.661	28.791	5.491	1.00	29.08	S
ATOM	381	CE	MET	A	56	-2.114	29.915	6.690	1.00	25.68	C
ATOM	382	C	MET	A	56	-5.970	26.475	8.001	1.00	27.32	C
ATOM	383	O	MET	A	56	-6.130	27.247	8.943	1.00	31.86	O
ATOM	384	N	GLU	A	57	-5.557	25.219	8.147	1.00	27.77	N
ATOM	385	CA	GLU	A	57	-5.182	24.681	9.446	1.00	28.19	C
ATOM	386	CB	GLU	A	57	-5.350	23.159	9.466	1.00	33.68	C
ATOM	387	CG	GLU	A	57	-6.649	22.675	10.092	1.00	43.84	C
ATOM	388	CD	GLU	A	57	-7.179	21.416	9.429	1.00	48.30	C
ATOM	389	OE1	GLU	A	57	-6.475	20.383	9.450	1.00	49.75	O
ATOM	390	OE2	GLU	A	57	-8.302	21.458	8.885	1.00	53.23	O
ATOM	391	C	GLU	A	57	-3.733	25.046	9.714	1.00	27.14	C
ATOM	392	O	GLU	A	57	-2.867	24.806	8.871	1.00	26.43	O
ATOM	393	N	ILE	A	58	-3.470	25.629	10.879	1.00	23.96	N
ATOM	394	CA	ILE	A	58	-2.103	25.966	11.255	1.00	23.30	C
ATOM	395	CB	ILE	A	58	-2.005	27.439	11.729	1.00	25.42	C
ATOM	396	CG1	ILE	A	58	-2.341	28.389	10.572	1.00	26.37	C
ATOM	397	CD1	ILE	A	58	-2.385	29.866	10.965	1.00	28.44	C
ATOM	398	CG2	ILE	A	58	-0.611	27.740	12.293	1.00	21.56	C
ATOM	399	C	ILE	A	58	-1.606	24.985	12.317	1.00	23.73	C
ATOM	400	O	ILE	A	58	-2.246	24.793	13.354	1.00	25.27	O
ATOM	401	N	TYR	A	59	-0.478	24.347	12.028	1.00	21.51	N
ATOM	402	CA	TYR	A	59	0.137	23.368	12.915	1.00	21.20	C
ATOM	403	CB	TYR	A	59	0.285	22.025	12.205	1.00	24.78	C
ATOM	404	CG	TYR	A	59	-1.015	21.329	11.893	1.00	30.40	C
ATOM	405	CD1	TYR	A	59	-1.638	20.517	12.842	1.00	35.62	C
ATOM	406	CE1	TYR	A	59	-2.834	19.866	12.559	1.00	37.26	C
ATOM	407	CZ	TYR	A	59	-3.417	20.024	11.314	1.00	39.08	C
ATOM	408	OH	TYR	A	59	-4.600	19.381	11.028	1.00	43.75	O
ATOM	409	CE2	TYR	A	59	-2.816	20.820	10.352	1.00	37.62	C
ATOM	410	CD2	TYR	A	59	-1.616	21.466	10.645	1.00	34.35	C
ATOM	411	C	TYR	A	59	1.516	23.818	13.337	1.00	22.46	C
ATOM	412	O	TYR	A	59	2.257	24.415	12.553	1.00	21.64	O
ATOM	413	N	ARG	A	60	1.875	23.504	14.573	1.00	20.21	N
ATOM	414	CA	ARG	A	60	3.241	23.689	15.018	1.00	22.73	C
ATOM	415	CB	ARG	A	60	3.264	23.993	16.509	1.00	27.65	C
ATOM	416	CG	ARG	A	60	4.580	24.532	17.001	1.00	26.76	C
ATOM	417	CD	ARG	A	60	4.622	24.755	18.496	1.00	28.10	C
ATOM	418	NE	ARG	A	60	5.630	25.743	18.837	1.00	26.39	N
ATOM	419	CZ	ARG	A	60	5.473	26.706	19.727	1.00	28.18	C
ATOM	420	NH1	ARG	A	60	4.335	26.818	20.409	1.00	27.35	N
ATOM	421	NH2	ARG	A	60	6.464	27.560	19.935	1.00	26.95	N
ATOM	422	C	ARG	A	60	4.017	22.408	14.702	1.00	24.37	C
ATOM	423	O	ARG	A	60	3.558	21.318	15.029	1.00	23.42	O
ATOM	424	N	PRO	A	61	5.174	22.523	14.047	1.00	26.28	N
ATOM	425	CA	PRO	A	61	5.977	21.337	13.730	1.00	26.84	C

ATOM	426	CB	PRO	A	61	7.118	21.910	12.887	1.00	24.71	C
ATOM	427	CG	PRO	A	61	7.239	23.321	13.333	1.00	30.02	C
ATOM	428	CD	PRO	A	61	5.818	23.761	13.572	1.00	24.64	C
ATOM	429	C	PRO	A	61	6.547	20.716	15.004	1.00	23.34	C
ATOM	430	O	PRO	A	61	6.787	21.431	15.975	1.00	22.07	O
ATOM	431	N	HIS	A	62	6.756	19.404	14.992	1.00	22.91	N
ATOM	432	CA	HIS	A	62	7.558	18.767	16.024	1.00	22.92	C
ATOM	433	CB	HIS	A	62	7.326	17.253	16.020	1.00	25.21	C
ATOM	434	CG	HIS	A	62	7.839	16.571	14.791	1.00	23.64	C
ATOM	435	ND1	HIS	A	62	7.200	16.649	13.573	1.00	26.11	N
ATOM	436	CE1	HIS	A	62	7.882	15.960	12.676	1.00	27.75	C
ATOM	437	NE2	HIS	A	62	8.946	15.447	13.266	1.00	24.33	N
ATOM	438	CD2	HIS	A	62	8.941	15.810	14.590	1.00	23.21	C
ATOM	439	C	HIS	A	62	9.027	19.079	15.725	1.00	24.85	C
ATOM	440	O	HIS	A	62	9.372	19.485	14.609	1.00	23.85	O
ATOM	441	N	LYS	A	63	9.885	18.897	16.719	1.00	21.34	N
ATOM	442	CA	LYS	A	63	11.321	18.931	16.489	1.00	21.51	C
ATOM	443	CB	LYS	A	63	12.074	19.240	17.781	1.00	22.01	C
ATOM	444	CG	LYS	A	63	11.922	20.661	18.283	1.00	27.78	C
ATOM	445	CD	LYS	A	63	12.644	20.834	19.610	1.00	35.80	C
ATOM	446	CE	LYS	A	63	12.118	22.038	20.381	1.00	40.35	C
ATOM	447	NZ	LYS	A	63	12.551	23.320	19.765	1.00	44.02	N
ATOM	448	C	LYS	A	63	11.752	17.573	15.941	1.00	27.78	C
ATOM	449	O	LYS	A	63	11.701	16.560	16.654	1.00	28.26	O
ATOM	450	N	ALA	A	64	12.160	17.544	14.674	1.00	21.91	N
ATOM	451	CA	ALA	A	64	12.664	16.313	14.064	1.00	21.78	C
ATOM	452	CB	ALA	A	64	13.080	16.564	12.617	1.00	24.55	C
ATOM	453	C	ALA	A	64	13.838	15.754	14.874	1.00	19.76	C
ATOM	454	O	ALA	A	64	14.667	16.507	15.375	1.00	20.06	O
ATOM	455	N	THR	A	65	13.900	14.435	15.025	1.00	18.07	N
ATOM	456	CA	THR	A	65	14.960	13.831	15.832	1.00	21.15	C
ATOM	457	CB	THR	A	65	14.431	12.589	16.565	1.00	22.77	C
ATOM	458	OG1	THR	A	65	14.090	11.587	15.595	1.00	19.46	O
ATOM	459	CG2	THR	A	65	13.107	12.897	17.276	1.00	23.54	C
ATOM	460	C	THR	A	65	16.161	13.421	14.984	1.00	21.80	C
ATOM	461	O	THR	A	65	16.088	13.413	13.755	1.00	22.04	O
ATOM	462	N	ALA	A	66	17.252	13.054	15.655	1.00	25.80	N
ATOM	463	CA	ALA	A	66	18.428	12.469	15.002	1.00	28.82	C
ATOM	464	CB	ALA	A	66	19.514	12.159	16.036	1.00	29.20	C
ATOM	465	C	ALA	A	66	18.083	11.219	14.192	1.00	34.57	C
ATOM	466	O	ALA	A	66	18.640	10.995	13.114	1.00	37.46	O
ATOM	467	N	GLU	A	67	17.151	10.418	14.708	1.00	36.04	N
ATOM	468	CA	GLU	A	67	16.640	9.249	13.994	1.00	34.03	C
ATOM	469	CB	GLU	A	67	15.579	8.522	14.835	1.00	37.03	C
ATOM	470	CG	GLU	A	67	16.030	7.184	15.404	1.00	38.13	C
ATOM	471	CD	GLU	A	67	14.929	6.447	16.154	1.00	39.99	C
ATOM	472	OE1	GLU	A	67	13.735	6.629	15.827	1.00	40.99	O
ATOM	473	OE2	GLU	A	67	15.258	5.674	17.078	1.00	38.90	O
ATOM	474	C	GLU	A	67	16.047	9.652	12.646	1.00	33.82	C
ATOM	475	O	GLU	A	67	16.303	9.009	11.624	1.00	34.42	O
ATOM	476	N	GLU	A	68	15.249	10.716	12.653	1.00	24.65	N
ATOM	477	CA	GLU	A	68	14.639	11.228	11.434	1.00	24.62	C
ATOM	478	CB	GLU	A	68	13.604	12.316	11.761	1.00	25.86	C
ATOM	479	CG	GLU	A	68	12.262	11.759	12.225	1.00	33.44	C
ATOM	480	CD	GLU	A	68	11.314	12.834	12.739	1.00	36.80	C
ATOM	481	OE1	GLU	A	68	10.428	13.265	11.971	1.00	38.84	O
ATOM	482	OE2	GLU	A	68	11.452	13.243	13.913	1.00	34.68	O
ATOM	483	C	GLU	A	68	15.707	11.766	10.477	1.00	22.14	C
ATOM	484	O	GLU	A	68	15.662	11.497	9.273	1.00	23.63	O
ATOM	485	N	MET	A	69	16.669	12.507	11.017	1.00	20.21	N
ATOM	486	CA	MET	A	69	17.688	13.154	10.180	1.00	21.75	C
ATOM	487	CB	MET	A	69	18.489	14.185	10.971	1.00	24.48	C
ATOM	488	CG	MET	A	69	17.701	15.453	11.260	1.00	24.04	C

ATOM	489	SD	MET	A	69	18.576	16.503	12.376	1.00	23.98	S
ATOM	490	CE	MET	A	69	17.309	17.708	12.749	1.00	24.60	C
ATOM	491	C	MET	A	69	18.631	12.160	9.510	1.00	25.36	C
ATOM	492	O	MET	A	69	19.060	12.386	8.383	1.00	21.00	O
ATOM	493	N	THR	A	70	18.934	11.059	10.197	1.00	24.31	N
ATOM	494	CA	THR	A	70	19.865	10.065	9.660	1.00	24.75	C
ATOM	495	CB	THR	A	70	20.629	9.314	10.787	1.00	26.67	C
ATOM	496	OG1	THR	A	70	19.695	8.724	11.698	1.00	24.61	O
ATOM	497	CG2	THR	A	70	21.440	10.294	11.643	1.00	21.95	C
ATOM	498	C	THR	A	70	19.217	9.086	8.679	1.00	25.39	C
ATOM	499	O	THR	A	70	19.863	8.132	8.242	1.00	25.88	O
ATOM	500	N	LYS	A	71	17.954	9.329	8.318	1.00	22.05	N
ATOM	501	CA	LYS	A	71	17.362	8.662	7.158	1.00	24.95	C
ATOM	502	CB	LYS	A	71	15.869	8.970	7.024	1.00	25.63	C
ATOM	503	CG	LYS	A	71	14.984	8.325	8.104	1.00	33.74	C
ATOM	504	CD	LYS	A	71	14.588	6.891	7.750	1.00	40.72	C
ATOM	505	CE	LYS	A	71	13.277	6.841	6.957	1.00	45.97	C
ATOM	506	NZ	LYS	A	71	13.430	6.156	5.632	1.00	48.35	N
ATOM	507	C	LYS	A	71	18.116	9.091	5.891	1.00	25.46	C
ATOM	508	O	LYS	A	71	18.066	8.409	4.870	1.00	27.11	O
ATOM	509	N	TYR	A	72	18.826	10.215	5.978	1.00	26.15	N
ATOM	510	CA	TYR	A	72	19.674	10.677	4.879	1.00	23.70	C
ATOM	511	CB	TYR	A	72	19.027	11.840	4.116	1.00	24.13	C
ATOM	512	CG	TYR	A	72	19.928	12.364	3.019	1.00	25.76	C
ATOM	513	CD1	TYR	A	72	20.469	13.645	3.086	1.00	26.87	C
ATOM	514	CE1	TYR	A	72	21.307	14.121	2.076	1.00	29.16	C
ATOM	515	CZ	TYR	A	72	21.616	13.299	1.006	1.00	28.81	C
ATOM	516	OH	TYR	A	72	22.448	13.748	0.008	1.00	33.17	O
ATOM	517	CE2	TYR	A	72	21.099	12.021	0.928	1.00	30.58	C
ATOM	518	CD2	TYR	A	72	20.261	11.561	1.928	1.00	27.65	C
ATOM	519	C	TYR	A	72	21.087	11.050	5.312	1.00	24.87	C
ATOM	520	O	TYR	A	72	22.064	10.593	4.717	1.00	27.21	O
ATOM	521	N	HIS	A	73	21.197	11.898	6.332	1.00	21.31	N
ATOM	522	CA	HIS	A	73	22.495	12.381	6.775	1.00	20.08	C
ATOM	523	CB	HIS	A	73	22.336	13.642	7.623	1.00	18.64	C
ATOM	524	CG	HIS	A	73	21.788	14.808	6.859	1.00	21.71	C
ATOM	525	ND1	HIS	A	73	22.569	15.586	6.032	1.00	17.90	N
ATOM	526	CE1	HIS	A	73	21.824	16.534	5.491	1.00	19.15	C
ATOM	527	NE2	HIS	A	73	20.587	16.395	5.932	1.00	19.73	N
ATOM	528	CD2	HIS	A	73	20.536	15.321	6.788	1.00	19.88	C
ATOM	529	C	HIS	A	73	23.280	11.325	7.537	1.00	22.98	C
ATOM	530	O	HIS	A	73	22.698	10.440	8.165	1.00	21.15	O
ATOM	531	N	SER	A	74	24.606	11.420	7.471	1.00	23.80	N
ATOM	532	CA	SER	A	74	25.470	10.491	8.195	1.00	28.28	C
ATOM	533	CB	SER	A	74	26.928	10.638	7.751	1.00	26.06	C
ATOM	534	OG	SER	A	74	27.504	11.822	8.270	1.00	29.56	O
ATOM	535	C	SER	A	74	25.351	10.705	9.698	1.00	27.37	C
ATOM	536	O	SER	A	74	25.118	11.823	10.158	1.00	26.14	O
ATOM	537	N	ASP	A	75	25.510	9.622	10.453	1.00	25.53	N
ATOM	538	CA	ASP	A	75	25.470	9.679	11.910	1.00	31.71	C
ATOM	539	CB	ASP	A	75	25.616	8.280	12.514	1.00	37.16	C
ATOM	540	CG	ASP	A	75	24.361	7.448	12.361	1.00	44.25	C
ATOM	541	OD1	ASP	A	75	24.392	6.467	11.589	1.00	49.21	O
ATOM	542	OD2	ASP	A	75	23.298	7.693	12.973	1.00	47.55	O
ATOM	543	C	ASP	A	75	26.524	10.618	12.488	1.00	26.63	C
ATOM	544	O	ASP	A	75	26.250	11.328	13.448	1.00	25.73	O
ATOM	545	N	GLU	A	76	27.719	10.631	11.897	1.00	26.99	N
ATOM	546	CA	GLU	A	76	28.814	11.481	12.378	1.00	27.92	C
ATOM	547	CB	GLU	A	76	30.116	11.190	11.615	1.00	33.59	C
ATOM	548	CG	GLU	A	76	30.407	9.710	11.377	1.00	41.55	C
ATOM	549	CD	GLU	A	76	29.741	9.169	10.118	1.00	46.86	C
ATOM	550	OE1	GLU	A	76	30.160	9.560	9.005	1.00	50.59	O
ATOM	551	OE2	GLU	A	76	28.795	8.355	10.240	1.00	44.87	O

ATOM	552	C	GLU	A	76	28.467	12.963	12.255	1.00	23.53	C
ATOM	553	O	GLU	A	76	28.761	13.763	13.151	1.00	26.19	O
ATOM	554	N	TYR	A	77	27.840	13.323	11.138	1.00	22.98	N
ATOM	555	CA	TYR	A	77	27.482	14.714	10.872	1.00	21.25	C
ATOM	556	CB	TYR	A	77	27.084	14.895	9.392	1.00	20.56	C
ATOM	557	CG	TYR	A	77	26.601	16.286	9.034	1.00	20.54	C
ATOM	558	CD1	TYR	A	77	27.345	17.421	9.372	1.00	21.01	C
ATOM	559	CE1	TYR	A	77	26.890	18.703	9.054	1.00	21.63	C
ATOM	560	CZ	TYR	A	77	25.686	18.848	8.385	1.00	19.11	C
ATOM	561	OH	TYR	A	77	25.228	20.107	8.059	1.00	20.20	O
ATOM	562	CE2	TYR	A	77	24.936	17.735	8.031	1.00	20.31	C
ATOM	563	CD2	TYR	A	77	25.392	16.465	8.357	1.00	19.49	C
ATOM	564	C	TYR	A	77	26.375	15.190	11.826	1.00	19.07	C
ATOM	565	O	TYR	A	77	26.469	16.276	12.397	1.00	22.28	O
ATOM	566	N	ILE	A	78	25.344	14.373	12.007	1.00	21.41	N
ATOM	567	CA	ILE	A	78	24.239	14.745	12.900	1.00	23.46	C
ATOM	568	CB	ILE	A	78	23.020	13.801	12.704	1.00	21.24	C
ATOM	569	CG1	ILE	A	78	22.453	13.935	11.281	1.00	24.33	C
ATOM	570	CD1	ILE	A	78	22.186	15.393	10.814	1.00	21.45	C
ATOM	571	CG2	ILE	A	78	21.926	14.066	13.750	1.00	24.33	C
ATOM	572	C	ILE	A	78	24.713	14.807	14.358	1.00	22.03	C
ATOM	573	O	ILE	A	78	24.315	15.706	15.117	1.00	25.61	O
ATOM	574	N	LYS	A	79	25.587	13.869	14.729	1.00	24.02	N
ATOM	575	CA	LYS	A	79	26.220	13.867	16.047	1.00	29.57	C
ATOM	576	CB	LYS	A	79	27.173	12.675	16.176	1.00	34.77	C
ATOM	577	CG	LYS	A	79	27.529	12.291	17.600	1.00	43.13	C
ATOM	578	CD	LYS	A	79	27.915	10.813	17.689	1.00	47.35	C
ATOM	579	CE	LYS	A	79	29.370	10.581	17.282	1.00	51.68	C
ATOM	580	NZ	LYS	A	79	30.135	9.823	18.318	1.00	55.12	N
ATOM	581	C	LYS	A	79	26.970	15.176	16.286	1.00	28.32	C
ATOM	582	O	LYS	A	79	26.893	15.755	17.380	1.00	27.46	O
ATOM	583	N	PHE	A	80	27.681	15.643	15.258	1.00	24.91	N
ATOM	584	CA	PHE	A	80	28.402	16.917	15.315	1.00	24.74	C
ATOM	585	CB	PHE	A	80	29.296	17.098	14.076	1.00	24.37	C
ATOM	586	CG	PHE	A	80	29.817	18.502	13.897	1.00	24.98	C
ATOM	587	CD1	PHE	A	80	29.237	19.358	12.963	1.00	26.01	C
ATOM	588	CE1	PHE	A	80	29.708	20.654	12.800	1.00	24.31	C
ATOM	589	CZ	PHE	A	80	30.767	21.109	13.568	1.00	25.79	C
ATOM	590	CE2	PHE	A	80	31.356	20.264	14.505	1.00	27.71	C
ATOM	591	CD2	PHE	A	80	30.881	18.969	14.662	1.00	26.48	C
ATOM	592	C	PHE	A	80	27.448	18.109	15.475	1.00	20.54	C
ATOM	593	O	PHE	A	80	27.670	18.975	16.327	1.00	25.28	O
ATOM	594	N	LEU	A	81	26.397	18.154	14.654	1.00	23.25	N
ATOM	595	CA	LEU	A	81	25.404	19.230	14.739	1.00	20.55	C
ATOM	596	CB	LEU	A	81	24.320	19.077	13.663	1.00	21.77	C
ATOM	597	CG	LEU	A	81	24.717	19.380	12.213	1.00	23.78	C
ATOM	598	CD1	LEU	A	81	23.505	19.230	11.307	1.00	24.12	C
ATOM	599	CD2	LEU	A	81	25.326	20.779	12.061	1.00	20.40	C
ATOM	600	C	LEU	A	81	24.775	19.304	16.131	1.00	23.82	C
ATOM	601	O	LEU	A	81	24.549	20.395	16.659	1.00	23.23	O
ATOM	602	N	ARG	A	82	24.533	18.135	16.722	1.00	24.11	N
ATOM	603	CA	ARG	A	82	24.014	18.008	18.088	1.00	31.57	C
ATOM	604	CB	ARG	A	82	23.739	16.538	18.394	1.00	33.37	C
ATOM	605	CG	ARG	A	82	22.400	16.047	17.951	1.00	39.51	C
ATOM	606	CD	ARG	A	82	21.733	15.145	18.967	1.00	44.81	C
ATOM	607	NE	ARG	A	82	21.938	13.738	18.644	1.00	47.74	N
ATOM	608	CZ	ARG	A	82	21.639	12.727	19.451	1.00	48.73	C
ATOM	609	NH1	ARG	A	82	21.863	11.482	19.058	1.00	48.37	N
ATOM	610	NH2	ARG	A	82	21.117	12.954	20.651	1.00	49.98	N
ATOM	611	C	ARG	A	82	24.965	18.541	19.163	1.00	33.99	C
ATOM	612	O	ARG	A	82	24.522	18.964	20.236	1.00	36.10	O
ATOM	613	N	SER	A	83	26.265	18.501	18.877	1.00	33.49	N
ATOM	614	CA	SER	A	83	27.302	18.786	19.872	1.00	33.19	C

ATOM	615	CB	SER	A	83	28.468	17.804	19.722	1.00	31.42	C
ATOM	616	OG	SER	A	83	28.002	16.474	19.645	1.00	33.45	O
ATOM	617	C	SER	A	83	27.849	20.201	19.818	1.00	31.55	C
ATOM	618	O	SER	A	83	28.182	20.776	20.853	1.00	34.62	O
ATOM	619	N	ILE	A	84	27.942	20.757	18.612	1.00	30.92	N
ATOM	620	CA	ILE	A	84	28.625	22.033	18.386	1.00	29.61	C
ATOM	621	CB	ILE	A	84	28.991	22.204	16.863	1.00	30.29	C
ATOM	622	CG1	ILE	A	84	29.954	23.376	16.646	1.00	32.44	C
ATOM	623	CD1	ILE	A	84	31.317	23.187	17.253	1.00	33.42	C
ATOM	624	CG2	ILE	A	84	27.739	22.350	15.983	1.00	28.46	C
ATOM	625	C	ILE	A	84	27.885	23.252	18.953	1.00	31.08	C
ATOM	626	O	ILE	A	84	26.679	23.412	18.757	1.00	30.35	O
ATOM	627	N	ARG	A	85	28.627	24.095	19.668	1.00	30.63	N
ATOM	628	CA	ARG	A	85	28.093	25.296	20.314	1.00	33.14	C
ATOM	629	CB	ARG	A	85	27.779	25.009	21.784	1.00	38.41	C
ATOM	630	CG	ARG	A	85	26.480	24.273	22.039	1.00	44.89	C
ATOM	631	CD	ARG	A	85	26.270	23.909	23.500	1.00	49.36	C
ATOM	632	NE	ARG	A	85	26.715	22.546	23.783	1.00	54.43	N
ATOM	633	CZ	ARG	A	85	27.779	22.232	24.515	1.00	55.40	C
ATOM	634	NH1	ARG	A	85	28.092	20.958	24.704	1.00	56.76	N
ATOM	635	NH2	ARG	A	85	28.531	23.180	25.061	1.00	55.60	N
ATOM	636	C	ARG	A	85	29.133	26.412	20.234	1.00	28.72	C
ATOM	637	O	ARG	A	85	30.323	26.129	20.097	1.00	33.33	O
ATOM	638	N	PRO	A	86	28.708	27.675	20.310	1.00	32.35	N
ATOM	639	CA	PRO	A	86	29.658	28.798	20.327	1.00	33.28	C
ATOM	640	CB	PRO	A	86	28.757	30.011	20.551	1.00	36.65	C
ATOM	641	CG	PRO	A	86	27.445	29.592	19.993	1.00	34.96	C
ATOM	642	CD	PRO	A	86	27.309	28.143	20.358	1.00	33.12	C
ATOM	643	C	PRO	A	86	30.708	28.700	21.445	1.00	40.50	C
ATOM	644	O	PRO	A	86	31.807	29.234	21.280	1.00	40.71	O
ATOM	645	N	ASP	A	87	30.376	28.012	22.538	1.00	43.67	N
ATOM	646	CA	ASP	A	87	31.260	27.898	23.703	1.00	48.56	C
ATOM	647	CB	ASP	A	87	30.439	27.763	24.998	1.00	53.81	C
ATOM	648	CG	ASP	A	87	29.646	26.468	25.063	1.00	56.89	C
ATOM	649	OD1	ASP	A	87	28.439	26.490	24.736	1.00	60.09	O
ATOM	650	OD2	ASP	A	87	30.140	25.382	25.437	1.00	57.39	O
ATOM	651	C	ASP	A	87	32.308	26.781	23.611	1.00	47.82	C
ATOM	652	O	ASP	A	87	33.293	26.799	24.350	1.00	47.19	O
ATOM	653	N	ASN	A	88	32.092	25.816	22.718	1.00	47.17	N
ATOM	654	CA	ASN	A	88	33.035	24.706	22.535	1.00	43.00	C
ATOM	655	CB	ASN	A	88	32.398	23.368	22.952	1.00	41.44	C
ATOM	656	CG	ASN	A	88	31.275	22.914	22.014	1.00	40.42	C
ATOM	657	OD1	ASN	A	88	31.081	23.464	20.929	1.00	38.05	O
ATOM	658	ND2	ASN	A	88	30.538	21.895	22.437	1.00	38.90	N
ATOM	659	C	ASN	A	88	33.631	24.626	21.123	1.00	42.50	C
ATOM	660	O	ASN	A	88	34.150	23.583	20.716	1.00	44.02	O
ATOM	661	N	MET	A	89	33.557	25.739	20.396	1.00	44.68	N
ATOM	662	CA	MET	A	89	34.004	25.829	19.003	1.00	47.95	C
ATOM	663	CB	MET	A	89	33.747	27.237	18.466	1.00	48.59	C
ATOM	664	CG	MET	A	89	32.677	27.323	17.404	1.00	48.75	C
ATOM	665	SD	MET	A	89	32.197	29.029	17.117	1.00	49.61	S
ATOM	666	CE	MET	A	89	33.377	29.523	15.854	1.00	54.00	C
ATOM	667	C	MET	A	89	35.478	25.477	18.807	1.00	51.22	C
ATOM	668	O	MET	A	89	35.819	24.657	17.950	1.00	49.28	O
ATOM	669	N	SER	A	90	36.343	26.101	19.607	1.00	55.04	N
ATOM	670	CA	SER	A	90	37.794	25.917	19.502	1.00	58.87	C
ATOM	671	CB	SER	A	90	38.525	26.828	20.491	1.00	60.51	C
ATOM	672	OG	SER	A	90	37.894	26.813	21.761	1.00	63.53	O
ATOM	673	C	SER	A	90	38.228	24.464	19.697	1.00	58.74	C
ATOM	674	O	SER	A	90	39.259	24.043	19.173	1.00	60.21	O
ATOM	675	N	GLU	A	91	37.427	23.706	20.442	1.00	59.55	N
ATOM	676	CA	GLU	A	91	37.673	22.283	20.659	1.00	60.08	C
ATOM	677	CB	GLU	A	91	36.924	21.794	21.901	1.00	62.80	C

ATOM	678	CG	GLU	A	91	37.538	22.252	23.213	1.00	66.98	C
ATOM	679	CD	GLU	A	91	36.725	21.816	24.415	1.00	70.22	C
ATOM	680	OE1	GLU	A	91	35.815	22.569	24.825	1.00	71.48	O
ATOM	681	OE2	GLU	A	91	36.996	20.720	24.948	1.00	70.70	O
ATOM	682	C	GLU	A	91	37.284	21.434	19.449	1.00	56.93	C
ATOM	683	O	GLU	A	91	37.817	20.340	19.258	1.00	57.11	O
ATOM	684	N	TYR	A	92	36.356	21.943	18.639	1.00	53.39	N
ATOM	685	CA	TYR	A	92	35.848	21.218	17.472	1.00	49.17	C
ATOM	686	CB	TYR	A	92	34.313	21.235	17.467	1.00	49.27	C
ATOM	687	CG	TYR	A	92	33.652	20.259	18.422	1.00	50.80	C
ATOM	688	CD1	TYR	A	92	33.329	20.637	19.726	1.00	50.43	C
ATOM	689	CE1	TYR	A	92	32.716	19.745	20.603	1.00	51.79	C
ATOM	690	CZ	TYR	A	92	32.415	18.462	20.173	1.00	52.46	C
ATOM	691	OH	TYR	A	92	31.809	17.575	21.031	1.00	54.33	O
ATOM	692	CE2	TYR	A	92	32.718	18.065	18.882	1.00	52.06	C
ATOM	693	CD2	TYR	A	92	33.331	18.963	18.014	1.00	51.22	C
ATOM	694	C	TYR	A	92	36.374	21.792	16.149	1.00	46.37	C
ATOM	695	O	TYR	A	92	35.807	21.529	15.087	1.00	40.05	O
ATOM	696	N	SER	A	93	37.457	22.565	16.221	1.00	45.63	N
ATOM	697	CA	SER	A	93	38.010	23.287	15.070	1.00	47.51	C
ATOM	698	CB	SER	A	93	39.319	23.982	15.454	1.00	48.34	C
ATOM	699	OG	SER	A	93	40.373	23.041	15.583	1.00	52.68	O
ATOM	700	C	SER	A	93	38.216	22.430	13.814	1.00	47.08	C
ATOM	701	O	SER	A	93	37.954	22.885	12.698	1.00	45.68	O
ATOM	702	N	LYS	A	94	38.674	21.194	14.008	1.00	47.43	N
ATOM	703	CA	LYS	A	94	38.946	20.269	12.905	1.00	46.11	C
ATOM	704	CB	LYS	A	94	39.875	19.137	13.365	1.00	49.41	C
ATOM	705	CG	LYS	A	94	41.219	19.617	13.937	1.00	54.56	C
ATOM	706	CD	LYS	A	94	42.061	18.463	14.490	1.00	57.10	C
ATOM	707	CE	LYS	A	94	42.915	18.907	15.676	1.00	59.72	C
ATOM	708	NZ	LYS	A	94	44.276	19.368	15.265	1.00	59.90	N
ATOM	709	C	LYS	A	94	37.663	19.694	12.305	1.00	44.73	C
ATOM	710	O	LYS	A	94	37.575	19.482	11.092	1.00	39.71	O
ATOM	711	N	GLN	A	95	36.675	19.440	13.162	1.00	42.62	N
ATOM	712	CA	GLN	A	95	35.387	18.890	12.739	1.00	40.29	C
ATOM	713	CB	GLN	A	95	34.601	18.371	13.947	1.00	44.66	C
ATOM	714	CG	GLN	A	95	35.045	16.999	14.447	1.00	48.96	C
ATOM	715	CD	GLN	A	95	36.414	17.015	15.124	1.00	52.54	C
ATOM	716	OE1	GLN	A	95	36.850	18.043	15.653	1.00	53.11	O
ATOM	717	NE2	GLN	A	95	37.095	15.873	15.101	1.00	56.39	N
ATOM	718	C	GLN	A	95	34.565	19.933	11.991	1.00	31.97	C
ATOM	719	O	GLN	A	95	33.834	19.611	11.060	1.00	30.53	O
ATOM	720	N	MET	A	96	34.696	21.185	12.410	1.00	27.10	N
ATOM	721	CA	MET	A	96	34.029	22.299	11.751	1.00	29.37	C
ATOM	722	CB	MET	A	96	34.334	23.596	12.488	1.00	29.10	C
ATOM	723	CG	MET	A	96	33.552	23.756	13.791	1.00	32.82	C
ATOM	724	SD	MET	A	96	34.072	25.224	14.687	1.00	40.99	S
ATOM	725	CE	MET	A	96	33.349	26.507	13.709	1.00	35.80	C
ATOM	726	C	MET	A	96	34.437	22.412	10.281	1.00	31.38	C
ATOM	727	O	MET	A	96	33.604	22.673	9.413	1.00	23.48	O
ATOM	728	N	GLN	A	97	35.720	22.198	10.003	1.00	29.95	N
ATOM	729	CA	GLN	A	97	36.213	22.283	8.631	1.00	29.24	C
ATOM	730	CB	GLN	A	97	37.741	22.423	8.605	1.00	28.31	C
ATOM	731	CG	GLN	A	97	38.230	23.582	9.459	1.00	33.77	C
ATOM	732	CD	GLN	A	97	39.641	24.026	9.131	1.00	36.64	C
ATOM	733	OE1	GLN	A	97	39.871	25.201	8.843	1.00	40.09	O
ATOM	734	NE2	GLN	A	97	40.585	23.099	9.190	1.00	34.75	N
ATOM	735	C	GLN	A	97	35.722	21.112	7.791	1.00	28.13	C
ATOM	736	O	GLN	A	97	35.273	21.307	6.660	1.00	28.89	O
ATOM	737	N	ARG	A	98	35.769	19.908	8.363	1.00	26.86	N
ATOM	738	CA	ARG	A	98	35.295	18.696	7.693	1.00	28.01	C
ATOM	739	CB	ARG	A	98	35.537	17.476	8.586	1.00	35.34	C
ATOM	740	CG	ARG	A	98	35.623	16.156	7.839	1.00	43.39	C

ATOM	741	CD	ARG	A	98	34.705	15.075	8.383	1.00	51.56	C
ATOM	742	NE	ARG	A	98	35.073	14.657	9.737	1.00	56.66	N
ATOM	743	CZ	ARG	A	98	34.962	13.416	10.203	1.00	60.29	C
ATOM	744	NH1	ARG	A	98	35.319	13.145	11.452	1.00	60.97	N
ATOM	745	NH2	ARG	A	98	34.496	12.443	9.428	1.00	62.22	N
ATOM	746	C	ARG	A	98	33.812	18.762	7.295	1.00	28.93	C
ATOM	747	O	ARG	A	98	33.425	18.280	6.230	1.00	27.55	O
ATOM	748	N	PHE	A	99	32.991	19.352	8.162	1.00	26.78	N
ATOM	749	CA	PHE	A	99	31.545	19.424	7.937	1.00	22.03	C
ATOM	750	CB	PHE	A	99	30.797	19.112	9.240	1.00	22.34	C
ATOM	751	CG	PHE	A	99	31.047	17.724	9.765	1.00	21.45	C
ATOM	752	CD1	PHE	A	99	30.825	16.613	8.965	1.00	22.29	C
ATOM	753	CE1	PHE	A	99	31.063	15.328	9.446	1.00	25.12	C
ATOM	754	CZ	PHE	A	99	31.529	15.150	10.741	1.00	26.43	C
ATOM	755	CE2	PHE	A	99	31.761	16.249	11.550	1.00	27.29	C
ATOM	756	CD2	PHE	A	99	31.523	17.533	11.060	1.00	25.68	C
ATOM	757	C	PHE	A	99	31.093	20.772	7.364	1.00	24.51	C
ATOM	758	O	PHE	A	99	29.892	21.024	7.240	1.00	24.49	O
ATOM	759	N	ASN	A	100	32.062	21.619	7.010	1.00	23.01	N
ATOM	760	CA	ASN	A	100	31.819	22.946	6.417	1.00	24.31	C
ATOM	761	CB	ASN	A	100	31.255	22.832	4.993	1.00	22.20	C
ATOM	762	CG	ASN	A	100	31.330	24.146	4.227	1.00	28.03	C
ATOM	763	OD1	ASN	A	100	32.274	24.915	4.390	1.00	24.26	O
ATOM	764	ND2	ASN	A	100	30.322	24.414	3.398	1.00	25.70	N
ATOM	765	C	ASN	A	100	30.954	23.890	7.268	1.00	25.05	C
ATOM	766	O	ASN	A	100	30.050	24.565	6.761	1.00	23.93	O
ATOM	767	N	VAL	A	101	31.241	23.927	8.561	1.00	24.26	N
ATOM	768	CA	VAL	A	101	30.550	24.829	9.472	1.00	27.01	C
ATOM	769	CB	VAL	A	101	29.897	24.032	10.639	1.00	29.13	C
ATOM	770	CG1	VAL	A	101	29.439	24.944	11.754	1.00	31.06	C
ATOM	771	CG2	VAL	A	101	28.720	23.209	10.118	1.00	24.73	C
ATOM	772	C	VAL	A	101	31.536	25.891	9.962	1.00	30.21	C
ATOM	773	O	VAL	A	101	32.674	25.573	10.316	1.00	34.62	O
ATOM	774	N	GLY	A	102	31.121	27.155	9.946	1.00	31.63	N
ATOM	775	CA	GLY	A	102	31.953	28.213	10.495	1.00	34.41	C
ATOM	776	C	GLY	A	102	32.093	29.512	9.725	1.00	36.47	C
ATOM	777	O	GLY	A	102	32.550	30.506	10.297	1.00	39.67	O
ATOM	778	N	GLU	A	103	31.735	29.518	8.442	1.00	37.59	N
ATOM	779	CA	GLU	A	103	31.738	30.761	7.657	1.00	39.54	C
ATOM	780	CB	GLU	A	103	32.776	30.742	6.515	1.00	47.84	C
ATOM	781	CG	GLU	A	103	33.439	29.395	6.254	1.00	57.12	C
ATOM	782	CD	GLU	A	103	34.707	29.494	5.416	1.00	62.56	C
ATOM	783	OE1	GLU	A	103	35.148	28.448	4.884	1.00	63.73	O
ATOM	784	OE2	GLU	A	103	35.268	30.606	5.285	1.00	63.86	O
ATOM	785	C	GLU	A	103	30.343	31.094	7.133	1.00	35.88	C
ATOM	786	O	GLU	A	103	29.620	31.870	7.758	1.00	36.79	O
ATOM	787	N	ASP	A	104	29.969	30.503	5.997	1.00	30.21	N
ATOM	788	CA	ASP	A	104	28.626	30.657	5.436	1.00	32.67	C
ATOM	789	CB	ASP	A	104	28.532	29.970	4.071	1.00	36.26	C
ATOM	790	CG	ASP	A	104	29.047	30.835	2.932	1.00	39.98	C
ATOM	791	OD1	ASP	A	104	29.618	31.917	3.193	1.00	41.69	O
ATOM	792	OD2	ASP	A	104	28.924	30.503	1.733	1.00	43.71	O
ATOM	793	C	ASP	A	104	27.586	30.044	6.363	1.00	27.12	C
ATOM	794	O	ASP	A	104	26.473	30.547	6.486	1.00	27.91	O
ATOM	795	N	CYS	A	105	27.963	28.938	6.998	1.00	25.15	N
ATOM	796	CA	CYS	A	105	27.087	28.214	7.902	1.00	23.97	C
ATOM	797	CB	CYS	A	105	26.918	26.764	7.428	1.00	24.52	C
ATOM	798	SG	CYS	A	105	26.536	26.592	5.658	1.00	28.15	S
ATOM	799	C	CYS	A	105	27.694	28.287	9.303	1.00	22.93	C
ATOM	800	O	CYS	A	105	28.385	27.364	9.738	1.00	20.50	O
ATOM	801	N	PRO	A	106	27.456	29.393	10.010	1.00	21.50	N
ATOM	802	CA	PRO	A	106	28.108	29.603	11.306	1.00	21.74	C
ATOM	803	CB	PRO	A	106	27.823	31.079	11.605	1.00	24.94	C

ATOM	804	CG	PRO	A	106	26.551	31.374	10.877	1.00	23.33	C
ATOM	805	CD	PRO	A	106	26.571	30.515	9.650	1.00	23.08	C
ATOM	806	C	PRO	A	106	27.519	28.726	12.399	1.00	23.61	C
ATOM	807	O	PRO	A	106	26.446	28.127	12.227	1.00	21.20	O
ATOM	808	N	VAL	A	107	28.253	28.635	13.501	1.00	26.40	N
ATOM	809	CA	VAL	A	107	27.750	28.040	14.727	1.00	26.92	C
ATOM	810	CB	VAL	A	107	28.889	27.463	15.603	1.00	26.44	C
ATOM	811	CG1	VAL	A	107	28.327	26.760	16.826	1.00	27.92	C
ATOM	812	CG2	VAL	A	107	29.744	26.494	14.807	1.00	26.88	C
ATOM	813	C	VAL	A	107	27.050	29.159	15.481	1.00	27.76	C
ATOM	814	O	VAL	A	107	27.638	30.220	15.735	1.00	27.02	O
ATOM	815	N	PHE	A	108	25.787	28.932	15.819	1.00	24.54	N
ATOM	816	CA	PHE	A	108	25.050	29.882	16.643	1.00	25.54	C
ATOM	817	CB	PHE	A	108	24.147	30.795	15.792	1.00	24.92	C
ATOM	818	CG	PHE	A	108	23.190	30.060	14.874	1.00	24.09	C
ATOM	819	CD1	PHE	A	108	23.535	29.799	13.552	1.00	23.93	C
ATOM	820	CE1	PHE	A	108	22.652	29.144	12.695	1.00	23.69	C
ATOM	821	CZ	PHE	A	108	21.392	28.749	13.162	1.00	24.59	C
ATOM	822	CE2	PHE	A	108	21.034	29.012	14.482	1.00	22.49	C
ATOM	823	CD2	PHE	A	108	21.930	29.671	15.324	1.00	21.84	C
ATOM	824	C	PHE	A	108	24.271	29.150	17.723	1.00	25.72	C
ATOM	825	O	PHE	A	108	24.072	27.937	17.629	1.00	25.11	O
ATOM	826	N	ASP	A	109	23.861	29.883	18.754	1.00	28.56	N
ATOM	827	CA	ASP	A	109	23.079	29.314	19.848	1.00	29.52	C
ATOM	828	CB	ASP	A	109	22.791	30.372	20.919	1.00	35.51	C
ATOM	829	CG	ASP	A	109	24.036	30.785	21.687	1.00	42.56	C
ATOM	830	OD1	ASP	A	109	24.710	29.904	22.267	1.00	47.41	O
ATOM	831	OD2	ASP	A	109	24.412	31.973	21.773	1.00	45.72	O
ATOM	832	C	ASP	A	109	21.769	28.738	19.320	1.00	27.06	C
ATOM	833	O	ASP	A	109	21.024	29.425	18.613	1.00	26.92	O
ATOM	834	N	GLY	A	110	21.516	27.473	19.648	1.00	22.47	N
ATOM	835	CA	GLY	A	110	20.289	26.802	19.259	1.00	26.60	C
ATOM	836	C	GLY	A	110	20.303	26.242	17.850	1.00	24.61	C
ATOM	837	O	GLY	A	110	19.251	25.886	17.317	1.00	24.16	O
ATOM	838	N	LEU	A	111	21.496	26.152	17.256	1.00	25.45	N
ATOM	839	CA	LEU	A	111	21.665	25.627	15.898	1.00	22.65	C
ATOM	840	CB	LEU	A	111	23.152	25.456	15.556	1.00	25.46	C
ATOM	841	CG	LEU	A	111	23.542	24.765	14.247	1.00	25.97	C
ATOM	842	CD1	LEU	A	111	22.826	25.389	13.061	1.00	26.11	C
ATOM	843	CD2	LEU	A	111	25.055	24.826	14.053	1.00	24.48	C
ATOM	844	C	LEU	A	111	20.911	24.323	15.654	1.00	22.25	C
ATOM	845	O	LEU	A	111	20.131	24.231	14.708	1.00	20.01	O
ATOM	846	N	PHE	A	112	21.140	23.314	16.495	1.00	21.78	N
ATOM	847	CA	PHE	A	112	20.473	22.036	16.278	1.00	19.97	C
ATOM	848	CB	PHE	A	112	21.014	20.917	17.179	1.00	22.58	C
ATOM	849	CG	PHE	A	112	20.541	19.547	16.765	1.00	21.88	C
ATOM	850	CD1	PHE	A	112	20.960	18.990	15.563	1.00	24.96	C
ATOM	851	CE1	PHE	A	112	20.505	17.737	15.160	1.00	25.01	C
ATOM	852	CZ	PHE	A	112	19.608	17.033	15.960	1.00	27.92	C
ATOM	853	CE2	PHE	A	112	19.175	17.585	17.154	1.00	25.93	C
ATOM	854	CD2	PHE	A	112	19.632	18.841	17.548	1.00	25.29	C
ATOM	855	C	PHE	A	112	18.948	22.138	16.386	1.00	20.44	C
ATOM	856	O	PHE	A	112	18.237	21.567	15.563	1.00	21.44	O
ATOM	857	N	GLU	A	113	18.462	22.860	17.395	1.00	19.79	N
ATOM	858	CA	GLU	A	113	17.025	23.078	17.585	1.00	23.27	C
ATOM	859	CB	GLU	A	113	16.773	23.917	18.844	1.00	28.94	C
ATOM	860	CG	GLU	A	113	16.734	23.123	20.139	1.00	41.80	C
ATOM	861	CD	GLU	A	113	16.053	23.880	21.268	1.00	51.45	C
ATOM	862	OE1	GLU	A	113	14.887	23.548	21.587	1.00	55.07	O
ATOM	863	OE2	GLU	A	113	16.681	24.805	21.837	1.00	55.95	O
ATOM	864	C	GLU	A	113	16.400	23.769	16.373	1.00	20.04	C
ATOM	865	O	GLU	A	113	15.296	23.422	15.950	1.00	19.05	O
ATOM	866	N	PHE	A	114	17.110	24.763	15.838	1.00	21.15	N

ATOM	867	CA	PHE	A	114	16.719	25.458	14.609	1.00	21.75	C
ATOM	868	CB	PHE	A	114	17.764	26.539	14.274	1.00	22.89	C
ATOM	869	CG	PHE	A	114	17.587	27.185	12.923	1.00	26.73	C
ATOM	870	CD1	PHE	A	114	18.426	26.846	11.860	1.00	29.48	C
ATOM	871	CE1	PHE	A	114	18.274	27.450	10.613	1.00	30.99	C
ATOM	872	CZ	PHE	A	114	17.278	28.408	10.422	1.00	30.97	C
ATOM	873	CE2	PHE	A	114	16.444	28.756	11.474	1.00	28.22	C
ATOM	874	CD2	PHE	A	114	16.606	28.148	12.718	1.00	25.48	C
ATOM	875	C	PHE	A	114	16.542	24.460	13.458	1.00	21.61	C
ATOM	876	O	PHE	A	114	15.524	24.479	12.768	1.00	21.11	O
ATOM	877	N	CYS	A	115	17.526	23.577	13.271	1.00	18.25	N
ATOM	878	CA	CYS	A	115	17.435	22.528	12.261	1.00	19.52	C
ATOM	879	CB	CYS	A	115	18.719	21.700	12.226	1.00	22.06	C
ATOM	880	SG	CYS	A	115	20.158	22.667	11.742	1.00	26.02	S
ATOM	881	C	CYS	A	115	16.252	21.606	12.514	1.00	16.78	C
ATOM	882	O	CYS	A	115	15.552	21.227	11.585	1.00	18.66	O
ATOM	883	N	GLN	A	116	16.047	21.245	13.777	1.00	16.08	N
ATOM	884	CA	GLN	A	116	14.959	20.333	14.148	1.00	19.01	C
ATOM	885	CB	GLN	A	116	14.988	20.041	15.647	1.00	20.96	C
ATOM	886	CG	GLN	A	116	16.140	19.188	16.130	1.00	19.64	C
ATOM	887	CD	GLN	A	116	16.007	18.886	17.614	1.00	21.49	C
ATOM	888	OE1	GLN	A	116	16.306	19.739	18.457	1.00	21.33	O
ATOM	889	NE2	GLN	A	116	15.519	17.692	17.935	1.00	20.46	N
ATOM	890	C	GLN	A	116	13.597	20.906	13.787	1.00	19.03	C
ATOM	891	O	GLN	A	116	12.720	20.184	13.318	1.00	21.06	O
ATOM	892	N	LEU	A	117	13.433	22.203	14.018	1.00	18.71	N
ATOM	893	CA	LEU	A	117	12.167	22.898	13.768	1.00	21.30	C
ATOM	894	CB	LEU	A	117	12.159	24.268	14.454	1.00	24.70	C
ATOM	895	CG	LEU	A	117	11.908	24.268	15.961	1.00	29.00	C
ATOM	896	CD1	LEU	A	117	12.011	25.688	16.512	1.00	33.08	C
ATOM	897	CD2	LEU	A	117	10.554	23.650	16.292	1.00	33.00	C
ATOM	898	C	LEU	A	117	11.893	23.073	12.286	1.00	21.23	C
ATOM	899	O	LEU	A	117	10.777	22.833	11.823	1.00	21.72	O
ATOM	900	N	SER	A	118	12.919	23.501	11.555	1.00	19.10	N
ATOM	901	CA	SER	A	118	12.850	23.658	10.106	1.00	21.36	C
ATOM	902	CB	SER	A	118	14.194	24.195	9.593	1.00	22.78	C
ATOM	903	OG	SER	A	118	14.250	24.187	8.181	1.00	30.56	O
ATOM	904	C	SER	A	118	12.502	22.323	9.438	1.00	20.55	C
ATOM	905	O	SER	A	118	11.612	22.246	8.588	1.00	22.01	O
ATOM	906	N	THR	A	119	13.197	21.270	9.850	1.00	20.36	N
ATOM	907	CA	THR	A	119	12.986	19.930	9.312	1.00	19.89	C
ATOM	908	CB	THR	A	119	14.122	19.000	9.775	1.00	21.72	C
ATOM	909	OG1	THR	A	119	15.366	19.492	9.261	1.00	23.16	O
ATOM	910	CG2	THR	A	119	13.993	17.618	9.153	1.00	24.56	C
ATOM	911	C	THR	A	119	11.629	19.344	9.707	1.00	20.94	C
ATOM	912	O	THR	A	119	10.954	18.740	8.876	1.00	18.19	O
ATOM	913	N	GLY	A	120	11.246	19.516	10.970	1.00	20.37	N
ATOM	914	CA	GLY	A	120	9.993	18.961	11.472	1.00	18.50	C
ATOM	915	C	GLY	A	120	8.791	19.353	10.632	1.00	19.37	C
ATOM	916	O	GLY	A	120	7.937	18.514	10.343	1.00	18.97	O
ATOM	917	N	GLY	A	121	8.736	20.621	10.221	1.00	16.56	N
ATOM	918	CA	GLY	A	121	7.656	21.110	9.378	1.00	19.64	C
ATOM	919	C	GLY	A	121	7.545	20.412	8.030	1.00	15.61	C
ATOM	920	O	GLY	A	121	6.445	20.073	7.586	1.00	16.06	O
ATOM	921	N	SER	A	122	8.684	20.191	7.377	1.00	13.94	N
ATOM	922	CA	SER	A	122	8.706	19.551	6.063	1.00	16.13	C
ATOM	923	CB	SER	A	122	10.093	19.700	5.430	1.00	17.73	C
ATOM	924	OG	SER	A	122	10.429	21.079	5.348	1.00	17.56	O
ATOM	925	C	SER	A	122	8.300	18.077	6.147	1.00	17.26	C
ATOM	926	O	SER	A	122	7.477	17.609	5.359	1.00	16.70	O
ATOM	927	N	VAL	A	123	8.867	17.364	7.113	1.00	19.13	N
ATOM	928	CA	VAL	A	123	8.544	15.946	7.318	1.00	22.48	C
ATOM	929	CB	VAL	A	123	9.558	15.271	8.278	1.00	23.49	C

ATOM	930	CG1	VAL	A	123	9.094	13.867	8.707	1.00	28.65	C
ATOM	931	CG2	VAL	A	123	10.931	15.188	7.615	1.00	22.94	C
ATOM	932	C	VAL	A	123	7.084	15.768	7.781	1.00	21.22	C
ATOM	933	O	VAL	A	123	6.377	14.880	7.296	1.00	19.57	O
ATOM	934	N	ALA	A	124	6.632	16.630	8.689	1.00	21.25	N
ATOM	935	CA	ALA	A	124	5.231	16.615	9.126	1.00	20.58	C
ATOM	936	CB	ALA	A	124	4.993	17.643	10.232	1.00	20.68	C
ATOM	937	C	ALA	A	124	4.271	16.853	7.963	1.00	19.99	C
ATOM	938	O	ALA	A	124	3.238	16.184	7.852	1.00	19.08	O
ATOM	939	N	GLY	A	125	4.613	17.805	7.100	1.00	19.56	N
ATOM	940	CA	GLY	A	125	3.831	18.071	5.905	1.00	15.04	C
ATOM	941	C	GLY	A	125	3.743	16.871	4.971	1.00	15.60	C
ATOM	942	O	GLY	A	125	2.668	16.554	4.453	1.00	16.85	O
ATOM	943	N	ALA	A	126	4.875	16.205	4.755	1.00	17.63	N
ATOM	944	CA	ALA	A	126	4.914	15.003	3.919	1.00	16.88	C
ATOM	945	CB	ALA	A	126	6.357	14.518	3.740	1.00	18.31	C
ATOM	946	C	ALA	A	126	4.032	13.886	4.484	1.00	18.39	C
ATOM	947	O	ALA	A	126	3.315	13.225	3.733	1.00	18.76	O
ATOM	948	N	VAL	A	127	4.089	13.687	5.803	1.00	21.04	N
ATOM	949	CA	VAL	A	127	3.254	12.687	6.483	1.00	20.07	C
ATOM	950	CB	VAL	A	127	3.597	12.566	8.000	1.00	21.55	C
ATOM	951	CG1	VAL	A	127	2.570	11.686	8.741	1.00	21.33	C
ATOM	952	CG2	VAL	A	127	5.014	12.015	8.203	1.00	23.06	C
ATOM	953	C	VAL	A	127	1.770	12.990	6.284	1.00	23.14	C
ATOM	954	O	VAL	A	127	0.992	12.092	5.953	1.00	22.48	O
ATOM	955	N	LYS	A	128	1.388	14.256	6.463	1.00	20.92	N
ATOM	956	CA	LYS	A	128	0.000	14.685	6.262	1.00	22.14	C
ATOM	957	CB	LYS	A	128	-0.151	16.164	6.638	1.00	25.68	C
ATOM	958	CG	LYS	A	128	-1.577	16.593	6.963	1.00	33.83	C
ATOM	959	CD	LYS	A	128	-1.898	16.433	8.440	1.00	37.22	C
ATOM	960	CE	LYS	A	128	-3.245	17.062	8.767	1.00	39.54	C
ATOM	961	NZ	LYS	A	128	-4.117	16.134	9.537	1.00	43.32	N
ATOM	962	C	LYS	A	128	-0.474	14.441	4.817	1.00	21.94	C
ATOM	963	O	LYS	A	128	-1.617	14.025	4.575	1.00	19.05	O
ATOM	964	N	LEU	A	129	0.413	14.697	3.863	1.00	17.99	N
ATOM	965	CA	LEU	A	129	0.140	14.436	2.456	1.00	20.30	C
ATOM	966	CB	LEU	A	129	1.270	15.006	1.589	1.00	21.72	C
ATOM	967	CG	LEU	A	129	1.199	16.344	0.832	1.00	27.04	C
ATOM	968	CD1	LEU	A	129	-0.022	17.198	1.108	1.00	25.71	C
ATOM	969	CD2	LEU	A	129	2.485	17.133	1.030	1.00	21.20	C
ATOM	970	C	LEU	A	129	-0.031	12.930	2.196	1.00	21.81	C
ATOM	971	O	LEU	A	129	-0.985	12.520	1.530	1.00	24.50	O
ATOM	972	N	ASN	A	130	0.886	12.125	2.733	1.00	21.13	N
ATOM	973	CA	ASN	A	130	0.831	10.663	2.619	1.00	22.34	C
ATOM	974	CB	ASN	A	130	1.978	10.009	3.399	1.00	23.20	C
ATOM	975	CG	ASN	A	130	3.299	10.005	2.633	1.00	21.83	C
ATOM	976	OD1	ASN	A	130	3.340	10.275	1.439	1.00	21.99	O
ATOM	977	ND2	ASN	A	130	4.379	9.683	3.328	1.00	20.89	N
ATOM	978	C	ASN	A	130	-0.491	10.093	3.129	1.00	26.11	C
ATOM	979	O	ASN	A	130	-1.044	9.159	2.550	1.00	23.82	O
ATOM	980	N	ARG	A	131	-0.980	10.670	4.222	1.00	25.03	N
ATOM	981	CA	ARG	A	131	-2.192	10.197	4.883	1.00	25.63	C
ATOM	982	CB	ARG	A	131	-2.177	10.633	6.345	1.00	26.07	C
ATOM	983	CG	ARG	A	131	-1.129	9.907	7.157	1.00	24.82	C
ATOM	984	CD	ARG	A	131	-1.019	10.388	8.578	1.00	32.37	C
ATOM	985	NE	ARG	A	131	-2.138	9.910	9.382	1.00	37.96	N
ATOM	986	CZ	ARG	A	131	-2.471	10.400	10.570	1.00	42.32	C
ATOM	987	NH1	ARG	A	131	-3.508	9.891	11.227	1.00	38.26	N
ATOM	988	NH2	ARG	A	131	-1.772	11.402	11.097	1.00	37.14	N
ATOM	989	C	ARG	A	131	-3.456	10.680	4.193	1.00	27.74	C
ATOM	990	O	ARG	A	131	-4.566	10.322	4.599	1.00	30.63	O
ATOM	991	N	GLN	A	132	-3.279	11.484	3.145	1.00	24.76	N
ATOM	992	CA	GLN	A	132	-4.378	12.072	2.385	1.00	30.81	C

ATOM	993	CB	GLN A 132	-5.199	10.988	1.667	1.00	33.63	C
ATOM	994	CG	GLN A 132	-4.550	10.446	0.397	1.00	39.49	C
ATOM	995	CD	GLN A 132	-5.352	9.317	-0.238	1.00	43.85	C
ATOM	996	OE1	GLN A 132	-4.824	8.231	-0.469	1.00	46.84	O
ATOM	997	NE2	GLN A 132	-6.624	9.572	-0.519	1.00	46.68	N
ATOM	998	C	GLN A 132	-5.265	12.944	3.276	1.00	30.21	C
ATOM	999	O	GLN A 132	-6.481	13.008	3.095	1.00	32.07	O
ATOM	1000	N	GLN A 133	-4.636	13.621	4.231	1.00	26.05	N
ATOM	1001	CA	GLN A 133	-5.346	14.484	5.165	1.00	29.85	C
ATOM	1002	CB	GLN A 133	-4.771	14.316	6.569	1.00	30.51	C
ATOM	1003	CG	GLN A 133	-5.507	13.280	7.386	1.00	38.40	C
ATOM	1004	CD	GLN A 133	-4.703	12.773	8.563	1.00	40.74	C
ATOM	1005	OE1	GLN A 133	-3.731	13.402	8.983	1.00	46.48	O
ATOM	1006	NE2	GLN A 133	-5.110	11.632	9.103	1.00	43.48	N
ATOM	1007	C	GLN A 133	-5.317	15.950	4.739	1.00	28.10	C
ATOM	1008	O	GLN A 133	-5.995	16.788	5.329	1.00	27.85	O
ATOM	1009	N	THR A 134	-4.524	16.247	3.713	1.00	23.27	N
ATOM	1010	CA	THR A 134	-4.472	17.581	3.124	1.00	23.70	C
ATOM	1011	CB	THR A 134	-3.500	18.509	3.931	1.00	24.37	C
ATOM	1012	OG1	THR A 134	-3.623	19.870	3.485	1.00	24.13	O
ATOM	1013	CG2	THR A 134	-2.026	18.158	3.679	1.00	20.83	C
ATOM	1014	C	THR A 134	-4.104	17.471	1.641	1.00	24.29	C
ATOM	1015	O	THR A 134	-3.558	16.448	1.203	1.00	24.52	O
ATOM	1016	N	ASP A 135	-4.437	18.501	0.868	1.00	20.92	N
ATOM	1017	CA	ASP A 135	-4.024	18.587	-0.529	1.00	26.62	C
ATOM	1018	CB	ASP A 135	-5.079	19.315	-1.361	1.00	31.75	C
ATOM	1019	CG	ASP A 135	-6.437	18.634	-1.309	1.00	38.60	C
ATOM	1020	OD1	ASP A 135	-7.441	19.328	-1.027	1.00	40.99	O
ATOM	1021	OD2	ASP A 135	-6.592	17.412	-1.521	1.00	37.56	O
ATOM	1022	C	ASP A 135	-2.679	19.300	-0.664	1.00	25.09	C
ATOM	1023	O	ASP A 135	-1.881	18.978	-1.550	1.00	20.41	O
ATOM	1024	N	MET A 136	-2.447	20.283	0.206	1.00	21.71	N
ATOM	1025	CA	MET A 136	-1.201	21.047	0.202	1.00	20.14	C
ATOM	1026	CB	MET A 136	-1.412	22.429	-0.420	1.00	23.48	C
ATOM	1027	CG	MET A 136	-1.680	22.417	-1.912	1.00	32.17	C
ATOM	1028	SD	MET A 136	-1.809	24.086	-2.554	1.00	37.36	S
ATOM	1029	CE	MET A 136	-3.466	24.097	-3.021	1.00	41.85	C
ATOM	1030	C	MET A 136	-0.685	21.212	1.626	1.00	20.21	C
ATOM	1031	O	MET A 136	-1.475	21.420	2.555	1.00	22.55	O
ATOM	1032	N	ALA A 137	0.631	21.101	1.801	1.00	16.32	N
ATOM	1033	CA	ALA A 137	1.244	21.414	3.083	1.00	15.44	C
ATOM	1034	CB	ALA A 137	1.878	20.198	3.711	1.00	17.40	C
ATOM	1035	C	ALA A 137	2.277	22.492	2.817	1.00	19.12	C
ATOM	1036	O	ALA A 137	2.951	22.467	1.788	1.00	18.34	O
ATOM	1037	N	VAL A 138	2.370	23.450	3.729	1.00	16.61	N
ATOM	1038	CA	VAL A 138	3.250	24.599	3.544	1.00	14.47	C
ATOM	1039	CB	VAL A 138	2.438	25.918	3.414	1.00	17.61	C
ATOM	1040	CG1	VAL A 138	3.376	27.113	3.208	1.00	16.01	C
ATOM	1041	CG2	VAL A 138	1.426	25.835	2.276	1.00	16.78	C
ATOM	1042	C	VAL A 138	4.201	24.701	4.731	1.00	16.38	C
ATOM	1043	O	VAL A 138	3.773	24.697	5.890	1.00	18.24	O
ATOM	1044	N	ASN A 139	5.498	24.781	4.443	1.00	15.01	N
ATOM	1045	CA	ASN A 139	6.495	25.027	5.475	1.00	15.07	C
ATOM	1046	CB	ASN A 139	7.222	23.735	5.897	1.00	15.17	C
ATOM	1047	CG	ASN A 139	8.280	23.984	6.980	1.00	14.94	C
ATOM	1048	OD1	ASN A 139	8.146	24.902	7.802	1.00	18.91	O
ATOM	1049	ND2	ASN A 139	9.341	23.192	6.968	1.00	15.99	N
ATOM	1050	C	ASN A 139	7.500	26.066	4.987	1.00	15.11	C
ATOM	1051	O	ASN A 139	8.507	25.714	4.376	1.00	14.44	O
ATOM	1052	N	TRP A 140	7.232	27.341	5.268	1.00	14.16	N
ATOM	1053	CA	TRP A 140	8.138	28.408	4.825	1.00	13.67	C
ATOM	1054	CB	TRP A 140	7.497	29.793	5.011	1.00	14.98	C
ATOM	1055	CG	TRP A 140	6.281	30.003	4.173	1.00	14.68	C

ATOM	1056	CD1	TRP	A	140	5.067	30.474	4.600	1.00	12.91	C
ATOM	1057	NE1	TRP	A	140	4.187	30.526	3.544	1.00	13.63	N
ATOM	1058	CE2	TRP	A	140	4.813	30.088	2.407	1.00	14.14	C
ATOM	1059	CD2	TRP	A	140	6.137	29.746	2.762	1.00	14.44	C
ATOM	1060	CE3	TRP	A	140	6.997	29.261	1.757	1.00	15.69	C
ATOM	1061	CZ3	TRP	A	140	6.513	29.141	0.451	1.00	18.55	C
ATOM	1062	CH2	TRP	A	140	5.186	29.492	0.134	1.00	19.80	C
ATOM	1063	CZ2	TRP	A	140	4.324	29.963	1.096	1.00	15.78	C
ATOM	1064	C	TRP	A	140	9.517	28.357	5.489	1.00	16.54	C
ATOM	1065	O	TRP	A	140	10.482	28.896	4.946	1.00	16.42	O
ATOM	1066	N	ALA	A	141	9.609	27.713	6.653	1.00	14.30	N
ATOM	1067	CA	ALA	A	141	10.888	27.563	7.361	1.00	18.35	C
ATOM	1068	CB	ALA	A	141	10.649	27.294	8.852	1.00	16.95	C
ATOM	1069	C	ALA	A	141	11.783	26.470	6.772	1.00	19.52	C
ATOM	1070	O	ALA	A	141	12.931	26.310	7.195	1.00	22.93	O
ATOM	1071	N	GLY	A	142	11.251	25.711	5.821	1.00	18.06	N
ATOM	1072	CA	GLY	A	142	12.000	24.650	5.168	1.00	19.80	C
ATOM	1073	C	GLY	A	142	12.572	25.107	3.839	1.00	20.07	C
ATOM	1074	O	GLY	A	142	12.682	26.311	3.582	1.00	17.45	O
ATOM	1075	N	GLY	A	143	12.942	24.147	2.996	1.00	17.28	N
ATOM	1076	CA	GLY	A	143	13.480	24.452	1.680	1.00	18.17	C
ATOM	1077	C	GLY	A	143	14.990	24.625	1.647	1.00	17.63	C
ATOM	1078	O	GLY	A	143	15.526	25.257	0.738	1.00	21.53	O
ATOM	1079	N	LEU	A	144	15.682	24.034	2.617	1.00	17.85	N
ATOM	1080	CA	LEU	A	144	17.132	24.221	2.752	1.00	21.55	C
ATOM	1081	CB	LEU	A	144	17.554	24.087	4.219	1.00	23.94	C
ATOM	1082	CG	LEU	A	144	16.980	25.175	5.147	1.00	28.94	C
ATOM	1083	CD1	LEU	A	144	17.667	25.151	6.494	1.00	36.38	C
ATOM	1084	CD2	LEU	A	144	17.067	26.580	4.536	1.00	35.47	C
ATOM	1085	C	LEU	A	144	17.908	23.280	1.816	1.00	20.95	C
ATOM	1086	O	LEU	A	144	18.480	22.270	2.238	1.00	23.16	O
ATOM	1087	N	HIS	A	145	17.932	23.656	0.541	1.00	16.60	N
ATOM	1088	CA	HIS	A	145	18.267	22.733	-0.546	1.00	17.45	C
ATOM	1089	CB	HIS	A	145	17.630	23.189	-1.872	1.00	17.38	C
ATOM	1090	CG	HIS	A	145	18.024	24.571	-2.308	1.00	16.70	C
ATOM	1091	ND1	HIS	A	145	17.706	25.070	-3.553	1.00	17.91	N
ATOM	1092	CE1	HIS	A	145	18.175	26.300	-3.667	1.00	16.58	C
ATOM	1093	NE2	HIS	A	145	18.775	26.622	-2.537	1.00	20.69	N
ATOM	1094	CD2	HIS	A	145	18.704	25.555	-1.674	1.00	18.17	C
ATOM	1095	C	HIS	A	145	19.754	22.427	-0.755	1.00	17.73	C
ATOM	1096	O	HIS	A	145	20.076	21.534	-1.542	1.00	19.50	O
ATOM	1097	N	HIS	A	146	20.639	23.150	-0.059	1.00	17.35	N
ATOM	1098	CA	HIS	A	146	22.092	23.003	-0.251	1.00	16.90	C
ATOM	1099	CB	HIS	A	146	22.826	24.340	-0.053	1.00	17.59	C
ATOM	1100	CG	HIS	A	146	22.461	25.387	-1.056	1.00	18.37	C
ATOM	1101	ND1	HIS	A	146	22.535	25.174	-2.415	1.00	17.89	N
ATOM	1102	CE1	HIS	A	146	22.149	26.266	-3.050	1.00	20.39	C
ATOM	1103	NE2	HIS	A	146	21.825	27.178	-2.152	1.00	19.46	N
ATOM	1104	CD2	HIS	A	146	22.007	26.653	-0.897	1.00	16.79	C
ATOM	1105	C	HIS	A	146	22.754	21.960	0.633	1.00	20.58	C
ATOM	1106	O	HIS	A	146	23.854	21.505	0.314	1.00	19.56	O
ATOM	1107	N	ALA	A	147	22.108	21.597	1.741	1.00	17.31	N
ATOM	1108	CA	ALA	A	147	22.710	20.670	2.699	1.00	21.31	C
ATOM	1109	CB	ALA	A	147	21.842	20.541	3.959	1.00	19.41	C
ATOM	1110	C	ALA	A	147	22.983	19.304	2.077	1.00	18.97	C
ATOM	1111	O	ALA	A	147	22.154	18.773	1.341	1.00	20.21	O
ATOM	1112	N	LYS	A	148	24.161	18.759	2.380	1.00	19.00	N
ATOM	1113	CA	LYS	A	148	24.614	17.486	1.833	1.00	22.65	C
ATOM	1114	CB	LYS	A	148	26.044	17.621	1.279	1.00	25.83	C
ATOM	1115	CG	LYS	A	148	26.282	18.852	0.401	1.00	31.00	C
ATOM	1116	CD	LYS	A	148	25.540	18.763	-0.932	1.00	34.70	C
ATOM	1117	CE	LYS	A	148	26.064	19.799	-1.938	1.00	35.04	C
ATOM	1118	NZ	LYS	A	148	25.991	21.204	-1.416	1.00	33.54	N

ATOM	1119	C	LYS	A	148	24.585	16.402	2.897	1.00	22.37	C
ATOM	1120	O	LYS	A	148	24.394	16.692	4.076	1.00	19.93	O
ATOM	1121	N	LYS	A	149	24.816	15.158	2.483	1.00	22.46	N
ATOM	1122	CA	LYS	A	149	24.790	14.024	3.411	1.00	23.66	C
ATOM	1123	CB	LYS	A	149	25.242	12.742	2.698	1.00	26.03	C
ATOM	1124	CG	LYS	A	149	25.092	11.479	3.533	1.00	32.98	C
ATOM	1125	CD	LYS	A	149	25.502	10.235	2.755	1.00	36.94	C
ATOM	1126	CE	LYS	A	149	24.542	9.082	3.009	1.00	44.27	C
ATOM	1127	NZ	LYS	A	149	24.860	8.328	4.262	1.00	47.40	N
ATOM	1128	C	LYS	A	149	25.640	14.260	4.661	1.00	23.28	C
ATOM	1129	O	LYS	A	149	25.188	14.018	5.788	1.00	22.43	O
ATOM	1130	N	SER	A	150	26.870	14.726	4.464	1.00	20.84	N
ATOM	1131	CA	SER	A	150	27.788	14.933	5.578	1.00	25.33	C
ATOM	1132	CB	ASER	A	150	28.879	13.858	5.565	0.65	24.25	C
ATOM	1133	OG	ASER	A	150	28.302	12.566	5.538	0.65	28.66	O
ATOM	1134	C	SER	A	150	28.420	16.321	5.576	1.00	25.44	C
ATOM	1135	O	SER	A	150	29.575	16.481	5.973	1.00	25.98	O
ATOM	1136	N	GLU	A	151	27.661	17.328	5.147	1.00	23.39	N
ATOM	1137	CA	GLU	A	151	28.209	18.672	5.014	1.00	25.81	C
ATOM	1138	CB	GLU	A	151	28.997	18.769	3.704	1.00	31.29	C
ATOM	1139	CG	GLU	A	151	30.347	19.436	3.836	1.00	42.38	C
ATOM	1140	CD	GLU	A	151	31.243	19.155	2.647	1.00	48.42	C
ATOM	1141	OE1	GLU	A	151	30.864	19.523	1.512	1.00	48.92	O
ATOM	1142	OE2	GLU	A	151	32.327	18.564	2.852	1.00	54.47	O
ATOM	1143	C	GLU	A	151	27.136	19.741	5.000	1.00	20.26	C
ATOM	1144	O	GLU	A	151	26.137	19.606	4.305	1.00	22.28	O
ATOM	1145	N	ALA	A	152	27.359	20.808	5.759	1.00	19.32	N
ATOM	1146	CA	ALA	A	152	26.555	22.015	5.646	1.00	19.28	C
ATOM	1147	CB	ALA	A	152	26.752	22.900	6.867	1.00	17.50	C
ATOM	1148	C	ALA	A	152	26.985	22.758	4.387	1.00	20.88	C
ATOM	1149	O	ALA	A	152	28.112	22.585	3.924	1.00	20.72	O
ATOM	1150	N	SER	A	153	26.095	23.580	3.837	1.00	22.15	N
ATOM	1151	CA	SER	A	153	26.431	24.406	2.681	1.00	21.33	C
ATOM	1152	CB	SER	A	153	26.579	23.542	1.422	1.00	18.71	C
ATOM	1153	OG	SER	A	153	26.648	24.332	0.249	1.00	23.59	O
ATOM	1154	C	SER	A	153	25.382	25.486	2.467	1.00	18.89	C
ATOM	1155	O	SER	A	153	24.194	25.248	2.674	1.00	18.58	O
ATOM	1156	N	GLY	A	154	25.830	26.677	2.072	1.00	18.52	N
ATOM	1157	CA	GLY	A	154	24.921	27.729	1.645	1.00	20.64	C
ATOM	1158	C	GLY	A	154	23.832	28.092	2.646	1.00	19.62	C
ATOM	1159	O	GLY	A	154	22.664	28.268	2.280	1.00	18.83	O
ATOM	1160	N	PHE	A	155	24.226	28.210	3.911	1.00	17.50	N
ATOM	1161	CA	PHE	A	155	23.329	28.567	5.017	1.00	17.61	C
ATOM	1162	CB	PHE	A	155	22.431	29.784	4.691	1.00	19.27	C
ATOM	1163	CG	PHE	A	155	23.151	30.951	4.046	1.00	19.64	C
ATOM	1164	CD1	PHE	A	155	24.519	31.159	4.231	1.00	20.04	C
ATOM	1165	CE1	PHE	A	155	25.167	32.248	3.635	1.00	21.58	C
ATOM	1166	CZ	PHE	A	155	24.444	33.138	2.851	1.00	20.38	C
ATOM	1167	CE2	PHE	A	155	23.075	32.941	2.658	1.00	20.98	C
ATOM	1168	CD2	PHE	A	155	22.439	31.855	3.260	1.00	19.95	C
ATOM	1169	C	PHE	A	155	22.448	27.390	5.487	1.00	18.57	C
ATOM	1170	O	PHE	A	155	21.671	27.542	6.429	1.00	17.44	O
ATOM	1171	N	CYS	A	156	22.575	26.238	4.828	1.00	19.84	N
ATOM	1172	CA	CYS	A	156	21.763	25.048	5.127	1.00	19.05	C
ATOM	1173	CB	CYS	A	156	21.271	24.390	3.837	1.00	20.24	C
ATOM	1174	SG	CYS	A	156	20.437	25.486	2.678	1.00	24.69	S
ATOM	1175	C	CYS	A	156	22.590	24.018	5.882	1.00	20.51	C
ATOM	1176	O	CYS	A	156	23.752	23.809	5.555	1.00	17.67	O
ATOM	1177	N	TYR	A	157	21.976	23.353	6.861	1.00	16.75	N
ATOM	1178	CA	TYR	A	157	22.669	22.367	7.690	1.00	16.33	C
ATOM	1179	CB	TYR	A	157	22.619	22.778	9.164	1.00	19.56	C
ATOM	1180	CG	TYR	A	157	23.177	24.156	9.455	1.00	19.61	C
ATOM	1181	CD1	TYR	A	157	22.379	25.293	9.331	1.00	19.53	C

ATOM	1182	CE1	TYR	A	157	22.881	26.562	9.613	1.00	20.19	C
ATOM	1183	CZ	TYR	A	157	24.199	26.704	10.028	1.00	19.40	C
ATOM	1184	OH	TYR	A	157	24.679	27.966	10.296	1.00	21.72	O
ATOM	1185	CE2	TYR	A	157	25.011	25.590	10.174	1.00	17.45	C
ATOM	1186	CD2	TYR	A	157	24.497	24.320	9.882	1.00	19.69	C
ATOM	1187	C	TYR	A	157	22.059	20.982	7.522	1.00	18.10	C
ATOM	1188	O	TYR	A	157	22.775	19.981	7.395	1.00	20.48	O
ATOM	1189	N	VAL	A	158	20.733	20.931	7.529	1.00	17.10	N
ATOM	1190	CA	VAL	A	158	20.004	19.675	7.359	1.00	17.50	C
ATOM	1191	CB	VAL	A	158	19.182	19.332	8.620	1.00	20.14	C
ATOM	1192	CG1	VAL	A	158	18.349	18.076	8.416	1.00	20.38	C
ATOM	1193	CG2	VAL	A	158	20.098	19.161	9.832	1.00	19.84	C
ATOM	1194	C	VAL	A	158	19.098	19.817	6.141	1.00	17.83	C
ATOM	1195	O	VAL	A	158	18.403	20.831	5.989	1.00	17.51	O
ATOM	1196	N	ASN	A	159	19.124	18.821	5.261	1.00	17.97	N
ATOM	1197	CA	ASN	A	159	18.319	18.890	4.058	1.00	15.25	C
ATOM	1198	CB	ASN	A	159	18.955	18.156	2.872	1.00	16.37	C
ATOM	1199	CG	ASN	A	159	18.466	18.704	1.546	1.00	16.45	C
ATOM	1200	OD1	ASN	A	159	17.260	18.824	1.324	1.00	15.26	O
ATOM	1201	ND2	ASN	A	159	19.392	19.056	0.668	1.00	17.55	N
ATOM	1202	C	ASN	A	159	16.898	18.403	4.301	1.00	17.19	C
ATOM	1203	O	ASN	A	159	16.572	17.239	4.058	1.00	16.07	O
ATOM	1204	N	ASP	A	160	16.058	19.310	4.791	1.00	17.69	N
ATOM	1205	CA	ASP	A	160	14.656	18.995	5.073	1.00	19.65	C
ATOM	1206	CB	ASP	A	160	13.940	20.211	5.668	1.00	22.13	C
ATOM	1207	CG	ASP	A	160	13.804	21.350	4.674	1.00	26.96	C
ATOM	1208	OD1	ASP	A	160	14.837	21.983	4.359	1.00	28.95	O
ATOM	1209	OD2	ASP	A	160	12.714	21.669	4.141	1.00	25.72	O
ATOM	1210	C	ASP	A	160	13.905	18.505	3.834	1.00	19.66	C
ATOM	1211	O	ASP	A	160	12.984	17.686	3.949	1.00	16.76	O
ATOM	1212	N	ILE	A	161	14.292	19.004	2.658	1.00	16.72	N
ATOM	1213	CA	ILE	A	161	13.635	18.606	1.412	1.00	16.23	C
ATOM	1214	CB	ILE	A	161	14.118	19.453	0.222	1.00	15.43	C
ATOM	1215	CG1	ILE	A	161	13.944	20.939	0.508	1.00	19.11	C
ATOM	1216	CD1	ILE	A	161	14.594	21.809	-0.520	1.00	18.48	C
ATOM	1217	CG2	ILE	A	161	13.367	19.037	-1.060	1.00	16.63	C
ATOM	1218	C	ILE	A	161	13.867	17.129	1.112	1.00	14.56	C
ATOM	1219	O	ILE	A	161	12.921	16.388	0.829	1.00	17.23	O
ATOM	1220	N	VAL	A	162	15.129	16.711	1.177	1.00	15.36	N
ATOM	1221	CA	VAL	A	162	15.479	15.311	0.943	1.00	16.11	C
ATOM	1222	CB	VAL	A	162	16.999	15.090	1.005	1.00	16.48	C
ATOM	1223	CG1	VAL	A	162	17.343	13.591	1.041	1.00	17.80	C
ATOM	1224	CG2	VAL	A	162	17.683	15.772	-0.203	1.00	16.81	C
ATOM	1225	C	VAL	A	162	14.740	14.413	1.947	1.00	17.75	C
ATOM	1226	O	VAL	A	162	14.203	13.369	1.572	1.00	20.01	O
ATOM	1227	N	LEU	A	163	14.710	14.834	3.208	1.00	18.36	N
ATOM	1228	CA	LEU	A	163	14.018	14.087	4.260	1.00	16.36	C
ATOM	1229	CB	LEU	A	163	14.325	14.683	5.640	1.00	15.85	C
ATOM	1230	CG	LEU	A	163	15.792	14.540	6.069	1.00	17.78	C
ATOM	1231	CD1	LEU	A	163	16.082	15.374	7.310	1.00	18.63	C
ATOM	1232	CD2	LEU	A	163	16.195	13.065	6.295	1.00	19.14	C
ATOM	1233	C	LEU	A	163	12.516	13.999	3.999	1.00	18.06	C
ATOM	1234	O	LEU	A	163	11.916	12.935	4.162	1.00	15.72	O
ATOM	1235	N	ALA	A	164	11.916	15.101	3.553	1.00	13.65	N
ATOM	1236	CA	ALA	A	164	10.491	15.105	3.215	1.00	15.83	C
ATOM	1237	CB	ALA	A	164	9.983	16.530	3.027	1.00	16.67	C
ATOM	1238	C	ALA	A	164	10.166	14.245	1.988	1.00	20.37	C
ATOM	1239	O	ALA	A	164	9.133	13.565	1.964	1.00	18.76	O
ATOM	1240	N	ILE	A	165	11.040	14.268	0.980	1.00	15.92	N
ATOM	1241	CA	ILE	A	165	10.836	13.449	-0.222	1.00	16.40	C
ATOM	1242	CB	ILE	A	165	11.786	13.887	-1.375	1.00	17.82	C
ATOM	1243	CG1	ILE	A	165	11.346	15.245	-1.941	1.00	16.79	C
ATOM	1244	CD1	ILE	A	165	12.424	15.918	-2.839	1.00	16.89	C

ATOM	1245	CG2	ILE	A	165	11.805	12.839	-2.515	1.00	16.11	C
ATOM	1246	C	ILE	A	165	10.972	11.953	0.098	1.00	16.87	C
ATOM	1247	O	ILE	A	165	10.192	11.134	-0.396	1.00	18.97	O
ATOM	1248	N	LEU	A	166	11.942	11.612	0.944	1.00	16.77	N
ATOM	1249	CA	LEU	A	166	12.099	10.237	1.427	1.00	18.24	C
ATOM	1250	CB	LEU	A	166	13.329	10.105	2.321	1.00	18.14	C
ATOM	1251	CG	LEU	A	166	14.696	10.149	1.622	1.00	21.00	C
ATOM	1252	CD1	LEU	A	166	15.807	10.139	2.664	1.00	22.82	C
ATOM	1253	CD2	LEU	A	166	14.881	9.007	0.607	1.00	22.10	C
ATOM	1254	C	LEU	A	166	10.846	9.738	2.148	1.00	21.97	C
ATOM	1255	O	LEU	A	166	10.476	8.568	2.022	1.00	21.97	O
ATOM	1256	N	GLU	A	167	10.180	10.632	2.873	1.00	19.05	N
ATOM	1257	CA	GLU	A	167	8.898	10.300	3.500	1.00	22.91	C
ATOM	1258	CB	GLU	A	167	8.472	11.381	4.503	1.00	24.95	C
ATOM	1259	CG	GLU	A	167	7.147	11.105	5.202	1.00	33.84	C
ATOM	1260	CD	GLU	A	167	7.204	9.913	6.151	1.00	40.30	C
ATOM	1261	OE1	GLU	A	167	6.150	9.272	6.357	1.00	48.14	O
ATOM	1262	OE2	GLU	A	167	8.292	9.615	6.696	1.00	44.28	O
ATOM	1263	C	GLU	A	167	7.816	10.079	2.451	1.00	21.93	C
ATOM	1264	O	GLU	A	167	7.062	9.110	2.536	1.00	22.13	O
ATOM	1265	N	LEU	A	168	7.748	10.959	1.450	1.00	17.90	N
ATOM	1266	CA	LEU	A	168	6.775	10.802	0.365	1.00	20.78	C
ATOM	1267	CB	LEU	A	168	6.816	11.989	-0.601	1.00	17.36	C
ATOM	1268	CG	LEU	A	168	6.283	13.336	-0.096	1.00	19.88	C
ATOM	1269	CD1	LEU	A	168	6.633	14.437	-1.104	1.00	19.43	C
ATOM	1270	CD2	LEU	A	168	4.774	13.293	0.161	1.00	20.09	C
ATOM	1271	C	LEU	A	168	6.966	9.499	-0.409	1.00	20.26	C
ATOM	1272	O	LEU	A	168	5.988	8.878	-0.831	1.00	22.71	O
ATOM	1273	N	LEU	A	169	8.220	9.084	-0.568	1.00	19.15	N
ATOM	1274	CA	LEU	A	169	8.554	7.870	-1.319	1.00	22.58	C
ATOM	1275	CB	LEU	A	169	10.067	7.777	-1.549	1.00	20.95	C
ATOM	1276	CG	LEU	A	169	10.634	8.779	-2.563	1.00	20.49	C
ATOM	1277	CD1	LEU	A	169	12.147	8.818	-2.513	1.00	23.93	C
ATOM	1278	CD2	LEU	A	169	10.135	8.472	-3.983	1.00	20.46	C
ATOM	1279	C	LEU	A	169	8.024	6.584	-0.670	1.00	24.96	C
ATOM	1280	O	LEU	A	169	7.946	5.542	-1.321	1.00	22.88	O
ATOM	1281	N	LYS	A	170	7.659	6.665	0.608	1.00	24.70	N
ATOM	1282	CA	LYS	A	170	7.016	5.547	1.299	1.00	28.63	C
ATOM	1283	CB	LYS	A	170	6.772	5.886	2.774	1.00	27.24	C
ATOM	1284	CG	LYS	A	170	8.012	5.877	3.643	1.00	31.04	C
ATOM	1285	CD	LYS	A	170	7.687	6.377	5.047	1.00	34.25	C
ATOM	1286	CE	LYS	A	170	8.910	6.323	5.946	1.00	40.49	C
ATOM	1287	NZ	LYS	A	170	8.604	6.778	7.338	1.00	44.46	N
ATOM	1288	C	LYS	A	170	5.688	5.186	0.632	1.00	29.03	C
ATOM	1289	O	LYS	A	170	5.301	4.020	0.611	1.00	33.31	O
ATOM	1290	N	TYR	A	171	5.003	6.184	0.071	1.00	29.59	N
ATOM	1291	CA	TYR	A	171	3.660	5.979	-0.480	1.00	32.85	C
ATOM	1292	CB	TYR	A	171	2.618	6.683	0.395	1.00	36.13	C
ATOM	1293	CG	TYR	A	171	2.454	6.040	1.753	1.00	42.78	C
ATOM	1294	CD1	TYR	A	171	1.588	4.960	1.934	1.00	46.42	C
ATOM	1295	CE1	TYR	A	171	1.441	4.356	3.181	1.00	47.32	C
ATOM	1296	CZ	TYR	A	171	2.168	4.830	4.259	1.00	47.90	C
ATOM	1297	OH	TYR	A	171	2.020	4.232	5.489	1.00	50.54	O
ATOM	1298	CE2	TYR	A	171	3.040	5.899	4.106	1.00	44.30	C
ATOM	1299	CD2	TYR	A	171	3.180	6.496	2.856	1.00	42.09	C
ATOM	1300	C	TYR	A	171	3.507	6.405	-1.940	1.00	34.44	C
ATOM	1301	O	TYR	A	171	2.458	6.173	-2.551	1.00	34.55	O
ATOM	1302	N	HIS	A	172	4.549	7.032	-2.486	1.00	28.65	N
ATOM	1303	CA	HIS	A	172	4.531	7.521	-3.861	1.00	27.46	C
ATOM	1304	CB	HIS	A	172	4.601	9.055	-3.889	1.00	25.29	C
ATOM	1305	CG	HIS	A	172	3.397	9.719	-3.308	1.00	21.86	C
ATOM	1306	ND1	HIS	A	172	3.294	10.034	-1.970	1.00	23.01	N
ATOM	1307	CE1	HIS	A	172	2.127	10.606	-1.744	1.00	21.77	C

ATOM	1308	NE2	HIS	A	172	1.465	10.666	-2.883	1.00	23.11	N
ATOM	1309	CD2	HIS	A	172	2.233	10.109	-3.876	1.00	20.59	C
ATOM	1310	C	HIS	A	172	5.681	6.934	-4.668	1.00	23.87	C
ATOM	1311	O	HIS	A	172	6.840	7.006	-4.258	1.00	26.78	O
ATOM	1312	N	GLN	A	173	5.349	6.352	-5.816	1.00	24.60	N
ATOM	1313	CA	GLN	A	173	6.348	5.740	-6.685	1.00	27.68	C
ATOM	1314	CB	GLN	A	173	5.667	4.922	-7.793	1.00	32.24	C
ATOM	1315	CG	GLN	A	173	6.622	4.092	-8.670	1.00	41.86	C
ATOM	1316	CD	GLN	A	173	7.498	3.125	-7.880	1.00	47.23	C
ATOM	1317	OE1	GLN	A	173	8.713	3.076	-8.085	1.00	50.35	O
ATOM	1318	NE2	GLN	A	173	6.884	2.351	-6.986	1.00	48.31	N
ATOM	1319	C	GLN	A	173	7.272	6.798	-7.288	1.00	24.56	C
ATOM	1320	O	GLN	A	173	8.491	6.610	-7.323	1.00	23.93	O
ATOM	1321	N	ARG	A	174	6.678	7.908	-7.735	1.00	23.66	N
ATOM	1322	CA	ARG	A	174	7.417	8.990	-8.390	1.00	24.60	C
ATOM	1323	CB	ARG	A	174	7.074	9.033	-9.881	1.00	25.62	C
ATOM	1324	CG	ARG	A	174	7.707	7.907	-10.708	1.00	27.68	C
ATOM	1325	CD	ARG	A	174	7.273	7.886	-12.174	1.00	27.56	C
ATOM	1326	NE	ARG	A	174	5.819	7.951	-12.335	1.00	29.57	N
ATOM	1327	CZ	ARG	A	174	4.998	6.904	-12.275	1.00	34.44	C
ATOM	1328	NH1	ARG	A	174	3.692	7.077	-12.427	1.00	32.20	N
ATOM	1329	NH2	ARG	A	174	5.472	5.682	-12.062	1.00	34.97	N
ATOM	1330	C	ARG	A	174	7.105	10.346	-7.753	1.00	20.48	C
ATOM	1331	O	ARG	A	174	5.941	10.720	-7.615	1.00	23.38	O
ATOM	1332	N	VAL	A	175	8.155	11.074	-7.378	1.00	19.52	N
ATOM	1333	CA	VAL	A	175	8.007	12.396	-6.771	1.00	17.00	C
ATOM	1334	CB	VAL	A	175	8.580	12.436	-5.335	1.00	16.29	C
ATOM	1335	CG1	VAL	A	175	8.505	13.855	-4.748	1.00	21.13	C
ATOM	1336	CG2	VAL	A	175	7.846	11.447	-4.416	1.00	17.62	C
ATOM	1337	C	VAL	A	175	8.729	13.431	-7.638	1.00	15.52	C
ATOM	1338	O	VAL	A	175	9.869	13.222	-8.045	1.00	18.40	O
ATOM	1339	N	LEU	A	176	8.056	14.538	-7.910	1.00	14.21	N
ATOM	1340	CA	LEU	A	176	8.656	15.624	-8.678	1.00	15.81	C
ATOM	1341	CB	LEU	A	176	7.663	16.144	-9.719	1.00	16.50	C
ATOM	1342	CG	LEU	A	176	8.072	17.381	-10.532	1.00	17.21	C
ATOM	1343	CD1	LEU	A	176	9.359	17.133	-11.329	1.00	17.36	C
ATOM	1344	CD2	LEU	A	176	6.929	17.823	-11.441	1.00	17.85	C
ATOM	1345	C	LEU	A	176	9.088	16.748	-7.741	1.00	15.84	C
ATOM	1346	O	LEU	A	176	8.300	17.214	-6.929	1.00	17.58	O
ATOM	1347	N	TYR	A	177	10.346	17.165	-7.860	1.00	15.24	N
ATOM	1348	CA	TYR	A	177	10.870	18.289	-7.089	1.00	15.94	C
ATOM	1349	CB	TYR	A	177	12.172	17.899	-6.384	1.00	15.18	C
ATOM	1350	CG	TYR	A	177	12.881	19.075	-5.730	1.00	15.93	C
ATOM	1351	CD1	TYR	A	177	12.333	19.704	-4.609	1.00	16.32	C
ATOM	1352	CE1	TYR	A	177	12.965	20.797	-4.010	1.00	15.92	C
ATOM	1353	CZ	TYR	A	177	14.157	21.270	-4.528	1.00	16.44	C
ATOM	1354	OH	TYR	A	177	14.768	22.348	-3.911	1.00	16.61	O
ATOM	1355	CE2	TYR	A	177	14.728	20.669	-5.639	1.00	15.74	C
ATOM	1356	CD2	TYR	A	177	14.080	19.575	-6.246	1.00	17.11	C
ATOM	1357	C	TYR	A	177	11.118	19.445	-8.061	1.00	17.59	C
ATOM	1358	O	TYR	A	177	11.740	19.246	-9.104	1.00	15.50	O
ATOM	1359	N	ILE	A	178	10.596	20.623	-7.725	1.00	14.85	N
ATOM	1360	CA	ILE	A	178	10.739	21.837	-8.530	1.00	13.73	C
ATOM	1361	CB	ILE	A	178	9.377	22.290	-9.126	1.00	15.33	C
ATOM	1362	CG1	ILE	A	178	8.719	21.183	-9.968	1.00	18.64	C
ATOM	1363	CD1	ILE	A	178	7.221	21.419	-10.211	1.00	17.95	C
ATOM	1364	CG2	ILE	A	178	9.565	23.560	-9.969	1.00	16.11	C
ATOM	1365	C	ILE	A	178	11.299	22.947	-7.646	1.00	15.96	C
ATOM	1366	O	ILE	A	178	10.818	23.167	-6.535	1.00	16.99	O
ATOM	1367	N	ASP	A	179	12.300	23.658	-8.159	1.00	16.05	N
ATOM	1368	CA	ASP	A	179	13.099	24.562	-7.354	1.00	17.54	C
ATOM	1369	CB	ASP	A	179	14.462	23.892	-7.157	1.00	16.49	C
ATOM	1370	CG	ASP	A	179	15.339	24.596	-6.154	1.00	18.79	C

ATOM	1371	OD1	ASP	A	179	15.355	25.847	-6.120	1.00	17.74	O
ATOM	1372	OD2	ASP	A	179	16.077	23.965	-5.369	1.00	20.41	O
ATOM	1373	C	ASP	A	179	13.221	25.906	-8.091	1.00	18.01	C
ATOM	1374	O	ASP	A	179	13.918	25.994	-9.110	1.00	17.86	O
ATOM	1375	N	ILE	A	180	12.539	26.938	-7.590	1.00	14.57	N
ATOM	1376	CA	ILE	A	180	12.560	28.271	-8.231	1.00	15.26	C
ATOM	1377	CB	ILE	A	180	11.122	28.795	-8.550	1.00	18.76	C
ATOM	1378	CG1	ILE	A	180	10.300	29.004	-7.270	1.00	16.38	C
ATOM	1379	CD1	ILE	A	180	8.981	29.755	-7.489	1.00	20.08	C
ATOM	1380	CG2	ILE	A	180	10.416	27.873	-9.549	1.00	19.83	C
ATOM	1381	C	ILE	A	180	13.377	29.310	-7.456	1.00	16.08	C
ATOM	1382	O	ILE	A	180	13.335	30.510	-7.769	1.00	15.61	O
ATOM	1383	N	ASP	A	181	14.106	28.840	-6.444	1.00	14.42	N
ATOM	1384	CA	ASP	A	181	15.191	29.606	-5.814	1.00	16.61	C
ATOM	1385	CB	ASP	A	181	15.907	28.692	-4.818	1.00	16.09	C
ATOM	1386	CG	ASP	A	181	16.795	29.436	-3.838	1.00	17.78	C
ATOM	1387	OD1	ASP	A	181	16.411	29.589	-2.656	1.00	16.75	O
ATOM	1388	OD2	ASP	A	181	17.922	29.868	-4.144	1.00	14.76	O
ATOM	1389	C	ASP	A	181	16.161	30.064	-6.921	1.00	14.28	C
ATOM	1390	O	ASP	A	181	16.332	29.366	-7.923	1.00	15.81	O
ATOM	1391	N	ILE	A	182	16.793	31.221	-6.751	1.00	16.89	N
ATOM	1392	CA	ILE	A	182	17.766	31.695	-7.736	1.00	16.34	C
ATOM	1393	CB	ILE	A	182	18.174	33.179	-7.450	1.00	14.73	C
ATOM	1394	CG1	ILE	A	182	18.801	33.804	-8.702	1.00	17.97	C
ATOM	1395	CD1	ILE	A	182	19.099	35.282	-8.568	1.00	18.21	C
ATOM	1396	CG2	ILE	A	182	19.124	33.282	-6.241	1.00	15.16	C
ATOM	1397	C	ILE	A	182	18.982	30.763	-7.842	1.00	15.08	C
ATOM	1398	O	ILE	A	182	19.653	30.717	-8.877	1.00	14.98	O
ATOM	1399	N	HIS	A	183	19.243	29.999	-6.779	1.00	15.16	N
ATOM	1400	CA	HIS	A	183	20.383	29.090	-6.740	1.00	14.82	C
ATOM	1401	CB	HIS	A	183	21.013	29.067	-5.344	1.00	16.59	C
ATOM	1402	CG	HIS	A	183	21.525	30.397	-4.897	1.00	18.85	C
ATOM	1403	ND1	HIS	A	183	20.840	31.196	-4.007	1.00	19.91	N
ATOM	1404	CE1	HIS	A	183	21.517	32.315	-3.815	1.00	22.22	C
ATOM	1405	NE2	HIS	A	183	22.619	32.268	-4.544	1.00	19.70	N
ATOM	1406	CD2	HIS	A	183	22.643	31.082	-5.238	1.00	17.77	C
ATOM	1407	C	HIS	A	183	19.979	27.678	-7.117	1.00	14.67	C
ATOM	1408	O	HIS	A	183	18.842	27.264	-6.888	1.00	14.27	O
ATOM	1409	N	HIS	A	184	20.931	26.941	-7.681	1.00	15.82	N
ATOM	1410	CA	HIS	A	184	20.727	25.543	-8.023	1.00	16.81	C
ATOM	1411	CB	HIS	A	184	21.953	25.002	-8.762	1.00	15.59	C
ATOM	1412	CG	HIS	A	184	21.847	23.554	-9.111	1.00	16.97	C
ATOM	1413	ND1	HIS	A	184	22.828	22.641	-8.799	1.00	19.83	N
ATOM	1414	CE1	HIS	A	184	22.463	21.443	-9.217	1.00	18.05	C
ATOM	1415	NE2	HIS	A	184	21.276	21.546	-9.784	1.00	19.59	N
ATOM	1416	CD2	HIS	A	184	20.865	22.855	-9.726	1.00	18.12	C
ATOM	1417	C	HIS	A	184	20.495	24.711	-6.758	1.00	17.51	C
ATOM	1418	O	HIS	A	184	21.238	24.836	-5.798	1.00	17.92	O
ATOM	1419	N	GLY	A	185	19.467	23.865	-6.770	1.00	19.54	N
ATOM	1420	CA	GLY	A	185	19.184	22.990	-5.641	1.00	20.77	C
ATOM	1421	C	GLY	A	185	20.098	21.775	-5.642	1.00	22.30	C
ATOM	1422	O	GLY	A	185	19.662	20.645	-5.893	1.00	17.69	O
ATOM	1423	N	ASP	A	186	21.370	22.013	-5.351	1.00	20.58	N
ATOM	1424	CA	ASP	A	186	22.394	20.994	-5.544	1.00	19.99	C
ATOM	1425	CB	ASP	A	186	23.802	21.613	-5.548	1.00	18.86	C
ATOM	1426	CG	ASP	A	186	24.151	22.315	-4.245	1.00	27.79	C
ATOM	1427	OD1	ASP	A	186	25.356	22.380	-3.913	1.00	25.32	O
ATOM	1428	OD2	ASP	A	186	23.303	22.835	-3.492	1.00	24.20	O
ATOM	1429	C	ASP	A	186	22.283	19.821	-4.565	1.00	19.34	C
ATOM	1430	O	ASP	A	186	22.519	18.671	-4.943	1.00	18.81	O
ATOM	1431	N	GLY	A	187	21.911	20.110	-3.323	1.00	17.32	N
ATOM	1432	CA	GLY	A	187	21.805	19.074	-2.303	1.00	18.98	C
ATOM	1433	C	GLY	A	187	20.698	18.084	-2.606	1.00	16.48	C

ATOM	1434	O	GLY	A	187	20.853	16.883	-2.355	1.00	21.55	O
ATOM	1435	N	VAL	A	188	19.586	18.578	-3.152	1.00	17.28	N
ATOM	1436	CA	VAL	A	188	18.469	17.710	-3.543	1.00	17.23	C
ATOM	1437	CB	VAL	A	188	17.150	18.507	-3.733	1.00	18.26	C
ATOM	1438	CG1	VAL	A	188	15.970	17.563	-3.940	1.00	18.70	C
ATOM	1439	CG2	VAL	A	188	16.892	19.409	-2.526	1.00	18.57	C
ATOM	1440	C	VAL	A	188	18.801	16.915	-4.817	1.00	18.53	C
ATOM	1441	O	VAL	A	188	18.561	15.700	-4.892	1.00	19.38	O
ATOM	1442	N	GLU	A	189	19.354	17.600	-5.814	1.00	17.91	N
ATOM	1443	CA	GLU	A	189	19.773	16.932	-7.047	1.00	20.74	C
ATOM	1444	CB	GLU	A	189	20.378	17.940	-8.026	1.00	22.94	C
ATOM	1445	CG	GLU	A	189	20.714	17.351	-9.384	1.00	23.87	C
ATOM	1446	CD	GLU	A	189	21.408	18.354	-10.274	1.00	28.15	C
ATOM	1447	OE1	GLU	A	189	20.708	19.152	-10.921	1.00	28.55	O
ATOM	1448	OE2	GLU	A	189	22.655	18.358	-10.302	1.00	31.71	O
ATOM	1449	C	GLU	A	189	20.773	15.811	-6.751	1.00	20.69	C
ATOM	1450	O	GLU	A	189	20.653	14.709	-7.294	1.00	21.72	O
ATOM	1451	N	GLU	A	190	21.733	16.093	-5.875	1.00	21.20	N
ATOM	1452	CA	GLU	A	190	22.759	15.121	-5.498	1.00	23.71	C
ATOM	1453	CB	GLU	A	190	23.806	15.766	-4.595	1.00	27.15	C
ATOM	1454	CG	GLU	A	190	24.866	14.797	-4.096	1.00	33.60	C
ATOM	1455	CD	GLU	A	190	26.015	15.498	-3.406	1.00	39.29	C
ATOM	1456	OE1	GLU	A	190	26.012	15.554	-2.159	1.00	38.80	O
ATOM	1457	OE2	GLU	A	190	26.916	15.995	-4.113	1.00	41.58	O
ATOM	1458	C	GLU	A	190	22.186	13.862	-4.829	1.00	23.84	C
ATOM	1459	O	GLU	A	190	22.549	12.744	-5.195	1.00	23.03	O
ATOM	1460	N	ALA	A	191	21.307	14.056	-3.848	1.00	21.78	N
ATOM	1461	CA	ALA	A	191	20.637	12.946	-3.169	1.00	21.73	C
ATOM	1462	CB	ALA	A	191	19.644	13.475	-2.139	1.00	20.82	C
ATOM	1463	C	ALA	A	191	19.927	12.001	-4.137	1.00	21.86	C
ATOM	1464	O	ALA	A	191	19.944	10.788	-3.941	1.00	21.48	O
ATOM	1465	N	PHE	A	192	19.306	12.555	-5.176	1.00	18.51	N
ATOM	1466	CA	PHE	A	192	18.440	11.766	-6.047	1.00	18.52	C
ATOM	1467	CB	PHE	A	192	17.018	12.331	-6.002	1.00	19.97	C
ATOM	1468	CG	PHE	A	192	16.415	12.332	-4.615	1.00	19.49	C
ATOM	1469	CD1	PHE	A	192	16.084	13.529	-3.982	1.00	19.40	C
ATOM	1470	CE1	PHE	A	192	15.518	13.534	-2.698	1.00	17.83	C
ATOM	1471	CZ	PHE	A	192	15.286	12.322	-2.037	1.00	18.49	C
ATOM	1472	CE2	PHE	A	192	15.612	11.118	-2.665	1.00	20.32	C
ATOM	1473	CD2	PHE	A	192	16.176	11.129	-3.946	1.00	20.98	C
ATOM	1474	C	PHE	A	192	18.949	11.628	-7.489	1.00	17.91	C
ATOM	1475	O	PHE	A	192	18.198	11.266	-8.395	1.00	20.26	O
ATOM	1476	N	TYR	A	193	20.236	11.899	-7.669	1.00	18.12	N
ATOM	1477	CA	TYR	A	193	20.855	11.949	-8.988	1.00	20.43	C
ATOM	1478	CB	TYR	A	193	22.309	12.401	-8.864	1.00	18.97	C
ATOM	1479	CG	TYR	A	193	22.829	13.104	-10.098	1.00	25.14	C
ATOM	1480	CD1	TYR	A	193	23.906	12.580	-10.816	1.00	26.82	C
ATOM	1481	CE1	TYR	A	193	24.391	13.220	-11.953	1.00	25.58	C
ATOM	1482	CZ	TYR	A	193	23.800	14.398	-12.381	1.00	28.04	C
ATOM	1483	OH	TYR	A	193	24.282	15.023	-13.508	1.00	26.87	O
ATOM	1484	CE2	TYR	A	193	22.721	14.942	-11.685	1.00	26.11	C
ATOM	1485	CD2	TYR	A	193	22.245	14.294	-10.550	1.00	24.50	C
ATOM	1486	C	TYR	A	193	20.799	10.614	-9.732	1.00	20.60	C
ATOM	1487	O	TYR	A	193	20.717	10.599	-10.959	1.00	22.30	O
ATOM	1488	N	THR	A	194	20.837	9.514	-8.979	1.00	23.58	N
ATOM	1489	CA	THR	A	194	20.913	8.171	-9.562	1.00	24.93	C
ATOM	1490	CB	THR	A	194	22.079	7.371	-8.937	1.00	27.22	C
ATOM	1491	OG1	THR	A	194	21.931	7.344	-7.514	1.00	29.93	O
ATOM	1492	CG2	THR	A	194	23.410	8.083	-9.150	1.00	26.13	C
ATOM	1493	C	THR	A	194	19.621	7.369	-9.448	1.00	29.26	C
ATOM	1494	O	THR	A	194	19.633	6.140	-9.588	1.00	27.61	O
ATOM	1495	N	THR	A	195	18.507	8.049	-9.186	1.00	25.50	N
ATOM	1496	CA	THR	A	195	17.219	7.363	-9.150	1.00	24.50	C

ATOM	1497	CB	THR	A	195	16.685	7.211	-7.697	1.00	28.02	C
ATOM	1498	OG1	THR	A	195	15.432	6.512	-7.722	1.00	22.50	O
ATOM	1499	CG2	THR	A	195	16.321	8.571	-7.086	1.00	24.35	C
ATOM	1500	C	THR	A	195	16.192	8.017	-10.056	1.00	22.49	C
ATOM	1501	O	THR	A	195	16.181	9.240	-10.235	1.00	20.65	O
ATOM	1502	N	ASP	A	196	15.344	7.184	-10.651	1.00	22.60	N
ATOM	1503	CA	ASP	A	196	14.211	7.659	-11.429	1.00	23.27	C
ATOM	1504	CB	ASP	A	196	13.918	6.708	-12.598	1.00	29.45	C
ATOM	1505	CG	ASP	A	196	13.620	5.279	-12.156	1.00	33.81	C
ATOM	1506	OD1	ASP	A	196	13.877	4.915	-10.987	1.00	31.42	O
ATOM	1507	OD2	ASP	A	196	13.128	4.439	-12.939	1.00	34.95	O
ATOM	1508	C	ASP	A	196	12.955	7.865	-10.578	1.00	24.43	C
ATOM	1509	O	ASP	A	196	11.909	8.259	-11.091	1.00	24.57	O
ATOM	1510	N	ARG	A	197	13.056	7.604	-9.278	1.00	22.66	N
ATOM	1511	CA	ARG	A	197	11.898	7.752	-8.399	1.00	19.73	C
ATOM	1512	CB	ARG	A	197	12.000	6.816	-7.200	1.00	24.14	C
ATOM	1513	CG	ARG	A	197	11.654	5.368	-7.557	1.00	27.30	C
ATOM	1514	CD	ARG	A	197	11.405	4.472	-6.370	1.00	30.31	C
ATOM	1515	NE	ARG	A	197	10.176	4.840	-5.669	1.00	30.94	N
ATOM	1516	CZ	ARG	A	197	9.962	4.640	-4.374	1.00	29.96	C
ATOM	1517	NH1	ARG	A	197	8.816	5.022	-3.831	1.00	27.04	N
ATOM	1518	NH2	ARG	A	197	10.890	4.067	-3.618	1.00	30.73	N
ATOM	1519	C	ARG	A	197	11.693	9.206	-7.971	1.00	20.11	C
ATOM	1520	O	ARG	A	197	10.622	9.578	-7.501	1.00	20.16	O
ATOM	1521	N	VAL	A	198	12.722	10.026	-8.158	1.00	20.30	N
ATOM	1522	CA	VAL	A	198	12.600	11.468	-7.947	1.00	17.11	C
ATOM	1523	CB	VAL	A	198	13.358	11.927	-6.685	1.00	17.05	C
ATOM	1524	CG1	VAL	A	198	13.217	13.443	-6.472	1.00	18.68	C
ATOM	1525	CG2	VAL	A	198	12.895	11.141	-5.438	1.00	17.58	C
ATOM	1526	C	VAL	A	198	13.173	12.194	-9.155	1.00	18.44	C
ATOM	1527	O	VAL	A	198	14.322	11.970	-9.518	1.00	20.49	O
ATOM	1528	N	MET	A	199	12.367	13.043	-9.781	1.00	16.26	N
ATOM	1529	CA	MET	A	199	12.869	13.920	-10.834	1.00	19.54	C
ATOM	1530	CB	MET	A	199	11.897	13.986	-12.007	1.00	19.84	C
ATOM	1531	CG	MET	A	199	12.281	15.033	-13.049	1.00	26.01	C
ATOM	1532	SD	MET	A	199	11.244	14.972	-14.499	1.00	36.88	S
ATOM	1533	CE	MET	A	199	11.942	13.614	-15.311	1.00	30.73	C
ATOM	1534	C	MET	A	199	13.055	15.312	-10.257	1.00	21.01	C
ATOM	1535	O	MET	A	199	12.131	15.853	-9.646	1.00	18.64	O
ATOM	1536	N	THR	A	200	14.243	15.884	-10.446	1.00	18.60	N
ATOM	1537	CA	THR	A	200	14.524	17.230	-9.934	1.00	17.54	C
ATOM	1538	CB	THR	A	200	15.848	17.275	-9.141	1.00	20.37	C
ATOM	1539	OG1	THR	A	200	16.917	16.734	-9.935	1.00	20.99	O
ATOM	1540	CG2	THR	A	200	15.795	16.363	-7.909	1.00	20.47	C
ATOM	1541	C	THR	A	200	14.570	18.232	-11.083	1.00	21.03	C
ATOM	1542	O	THR	A	200	15.188	17.975	-12.121	1.00	20.83	O
ATOM	1543	N	VAL	A	201	13.893	19.362	-10.899	1.00	15.55	N
ATOM	1544	CA	VAL	A	201	13.834	20.409	-11.910	1.00	15.86	C
ATOM	1545	CB	VAL	A	201	12.414	20.568	-12.508	1.00	15.57	C
ATOM	1546	CG1	VAL	A	201	12.400	21.660	-13.582	1.00	18.15	C
ATOM	1547	CG2	VAL	A	201	11.902	19.246	-13.088	1.00	21.36	C
ATOM	1548	C	VAL	A	201	14.228	21.718	-11.244	1.00	17.55	C
ATOM	1549	O	VAL	A	201	13.516	22.205	-10.365	1.00	17.25	O
ATOM	1550	N	SER	A	202	15.364	22.274	-11.645	1.00	16.83	N
ATOM	1551	CA	SER	A	202	15.816	23.528	-11.051	1.00	18.01	C
ATOM	1552	CB	SER	A	202	17.117	23.326	-10.274	1.00	16.01	C
ATOM	1553	OG	SER	A	202	17.571	24.548	-9.712	1.00	17.20	O
ATOM	1554	C	SER	A	202	15.997	24.603	-12.108	1.00	15.17	C
ATOM	1555	O	SER	A	202	16.571	24.354	-13.173	1.00	13.35	O
ATOM	1556	N	PHE	A	203	15.482	25.789	-11.800	1.00	13.63	N
ATOM	1557	CA	PHE	A	203	15.681	26.984	-12.611	1.00	14.43	C
ATOM	1558	CB	PHE	A	203	14.341	27.689	-12.884	1.00	12.50	C
ATOM	1559	CG	PHE	A	203	13.319	26.823	-13.564	1.00	17.96	C

ATOM	1560	CD1	PHE	A	203	12.491	25.980	-12.823	1.00	18.22	C
ATOM	1561	CE1	PHE	A	203	11.543	25.167	-13.457	1.00	19.51	C
ATOM	1562	CZ	PHE	A	203	11.426	25.199	-14.829	1.00	18.12	C
ATOM	1563	CE2	PHE	A	203	12.247	26.045	-15.581	1.00	17.58	C
ATOM	1564	CD2	PHE	A	203	13.181	26.849	-14.945	1.00	18.57	C
ATOM	1565	C	PHE	A	203	16.555	27.887	-11.751	1.00	17.92	C
ATOM	1566	O	PHE	A	203	16.214	28.147	-10.597	1.00	17.77	O
ATOM	1567	N	HIS	A	204	17.680	28.357	-12.285	1.00	16.64	N
ATOM	1568	CA	HIS	A	204	18.642	29.075	-11.450	1.00	14.96	C
ATOM	1569	CB	HIS	A	204	19.456	28.087	-10.610	1.00	15.86	C
ATOM	1570	CG	HIS	A	204	19.984	26.940	-11.404	1.00	21.07	C
ATOM	1571	ND1	HIS	A	204	19.304	25.746	-11.522	1.00	18.75	N
ATOM	1572	CE1	HIS	A	204	19.991	24.930	-12.303	1.00	19.04	C
ATOM	1573	NE2	HIS	A	204	21.087	25.555	-12.701	1.00	21.96	N
ATOM	1574	CD2	HIS	A	204	21.105	26.816	-12.157	1.00	18.24	C
ATOM	1575	C	HIS	A	204	19.610	29.898	-12.273	1.00	17.04	C
ATOM	1576	O	HIS	A	204	19.838	29.621	-13.459	1.00	14.82	O
ATOM	1577	N	LYS	A	205	20.189	30.901	-11.623	1.00	17.40	N
ATOM	1578	CA	LYS	A	205	21.297	31.636	-12.210	1.00	17.49	C
ATOM	1579	CB	LYS	A	205	21.636	32.886	-11.399	1.00	21.73	C
ATOM	1580	CG	LYS	A	205	22.628	33.786	-12.143	1.00	31.19	C
ATOM	1581	CD	LYS	A	205	23.181	34.896	-11.283	1.00	36.11	C
ATOM	1582	CE	LYS	A	205	24.621	35.239	-11.675	1.00	40.39	C
ATOM	1583	NZ	LYS	A	205	24.784	35.565	-13.120	1.00	42.98	N
ATOM	1584	C	LYS	A	205	22.510	30.724	-12.296	1.00	19.26	C
ATOM	1585	O	LYS	A	205	22.808	29.979	-11.365	1.00	17.53	O
ATOM	1586	N	TYR	A	206	23.200	30.776	-13.429	1.00	17.36	N
ATOM	1587	CA	TYR	A	206	24.329	29.895	-13.658	1.00	19.17	C
ATOM	1588	CB	TYR	A	206	23.908	28.711	-14.528	1.00	17.57	C
ATOM	1589	CG	TYR	A	206	25.002	27.701	-14.754	1.00	18.73	C
ATOM	1590	CD1	TYR	A	206	25.712	27.668	-15.957	1.00	24.25	C
ATOM	1591	CE1	TYR	A	206	26.732	26.728	-16.167	1.00	24.83	C
ATOM	1592	CZ	TYR	A	206	27.046	25.831	-15.162	1.00	26.02	C
ATOM	1593	OH	TYR	A	206	28.048	24.908	-15.350	1.00	31.27	O
ATOM	1594	CE2	TYR	A	206	26.355	25.849	-13.957	1.00	24.51	C
ATOM	1595	CD2	TYR	A	206	25.341	26.782	-13.761	1.00	22.18	C
ATOM	1596	C	TYR	A	206	25.459	30.657	-14.322	1.00	22.31	C
ATOM	1597	O	TYR	A	206	25.219	31.487	-15.203	1.00	23.88	O
ATOM	1598	N	GLY	A	207	26.683	30.358	-13.895	1.00	23.60	N
ATOM	1599	CA	GLY	A	207	27.873	31.007	-14.420	1.00	29.41	C
ATOM	1600	C	GLY	A	207	28.553	31.830	-13.345	1.00	31.65	C
ATOM	1601	O	GLY	A	207	28.117	32.940	-13.045	1.00	35.65	O
ATOM	1602	N	GLU	A	208	29.607	31.268	-12.756	1.00	35.44	N
ATOM	1603	CA	GLU	A	208	30.389	31.930	-11.702	1.00	41.06	C
ATOM	1604	CB	GLU	A	208	31.165	33.135	-12.260	1.00	47.95	C
ATOM	1605	CG	GLU	A	208	32.227	32.798	-13.298	1.00	54.90	C
ATOM	1606	CD	GLU	A	208	32.643	34.010	-14.115	1.00	59.50	C
ATOM	1607	OE1	GLU	A	208	32.234	34.105	-15.295	1.00	61.75	O
ATOM	1608	OE2	GLU	A	208	33.376	34.872	-13.578	1.00	60.18	O
ATOM	1609	C	GLU	A	208	29.506	32.362	-10.529	1.00	37.16	C
ATOM	1610	O	GLU	A	208	29.701	33.431	-9.947	1.00	39.40	O
ATOM	1611	N	TYR	A	209	28.530	31.523	-10.192	1.00	28.29	N
ATOM	1612	CA	TYR	A	209	27.542	31.849	-9.170	1.00	26.43	C
ATOM	1613	CB	TYR	A	209	26.214	32.204	-9.849	1.00	27.37	C
ATOM	1614	CG	TYR	A	209	25.257	33.027	-9.018	1.00	30.36	C
ATOM	1615	CD1	TYR	A	209	24.021	32.510	-8.642	1.00	29.81	C
ATOM	1616	CE1	TYR	A	209	23.122	33.262	-7.895	1.00	29.75	C
ATOM	1617	CZ	TYR	A	209	23.455	34.547	-7.515	1.00	32.87	C
ATOM	1618	OH	TYR	A	209	22.556	35.272	-6.767	1.00	37.37	O
ATOM	1619	CE2	TYR	A	209	24.677	35.093	-7.876	1.00	31.58	C
ATOM	1620	CD2	TYR	A	209	25.571	34.334	-8.629	1.00	31.47	C
ATOM	1621	C	TYR	A	209	27.365	30.637	-8.258	1.00	24.01	C
ATOM	1622	O	TYR	A	209	27.505	29.498	-8.706	1.00	25.82	O

ATOM	1623	N	PHE	A	210	27.084	30.887	-6.983	1.00	22.19	N
ATOM	1624	CA	PHE	A	210	26.877	29.813	-6.008	1.00	20.48	C
ATOM	1625	CB	PHE	A	210	26.626	30.397	-4.609	1.00	19.79	C
ATOM	1626	CG	PHE	A	210	26.586	29.357	-3.522	1.00	21.43	C
ATOM	1627	CD1	PHE	A	210	25.376	28.784	-3.128	1.00	21.27	C
ATOM	1628	CE1	PHE	A	210	25.346	27.799	-2.139	1.00	19.48	C
ATOM	1629	CZ	PHE	A	210	26.530	27.380	-1.540	1.00	23.72	C
ATOM	1630	CE2	PHE	A	210	27.741	27.940	-1.924	1.00	22.23	C
ATOM	1631	CD2	PHE	A	210	27.766	28.920	-2.918	1.00	21.03	C
ATOM	1632	C	PHE	A	210	25.683	28.958	-6.439	1.00	16.90	C
ATOM	1633	O	PHE	A	210	24.673	29.515	-6.873	1.00	21.77	O
ATOM	1634	N	PRO	A	211	25.755	27.628	-6.315	1.00	20.08	N
ATOM	1635	CA	PRO	A	211	26.927	26.882	-5.835	1.00	22.14	C
ATOM	1636	CB	PRO	A	211	26.281	25.664	-5.166	1.00	22.51	C
ATOM	1637	CG	PRO	A	211	25.024	25.409	-5.972	1.00	20.64	C
ATOM	1638	CD	PRO	A	211	24.621	26.729	-6.596	1.00	18.17	C
ATOM	1639	C	PRO	A	211	27.895	26.410	-6.935	1.00	25.02	C
ATOM	1640	O	PRO	A	211	28.841	25.684	-6.624	1.00	25.95	O
ATOM	1641	N	GLY	A	212	27.655	26.798	-8.185	1.00	22.58	N
ATOM	1642	CA	GLY	A	212	28.538	26.440	-9.288	1.00	24.23	C
ATOM	1643	C	GLY	A	212	28.116	25.217	-10.085	1.00	24.46	C
ATOM	1644	O	GLY	A	212	28.773	24.844	-11.058	1.00	27.79	O
ATOM	1645	N	THR	A	213	27.021	24.590	-9.672	1.00	23.23	N
ATOM	1646	CA	THR	A	213	26.481	23.414	-10.359	1.00	22.43	C
ATOM	1647	CB	THR	A	213	26.238	22.281	-9.351	1.00	26.37	C
ATOM	1648	OG1	THR	A	213	25.504	22.798	-8.235	1.00	25.20	O
ATOM	1649	CG2	THR	A	213	27.557	21.790	-8.745	1.00	30.24	C
ATOM	1650	C	THR	A	213	25.169	23.747	-11.068	1.00	21.10	C
ATOM	1651	O	THR	A	213	24.715	24.886	-11.046	1.00	22.73	O
ATOM	1652	N	GLY	A	214	24.552	22.742	-11.679	1.00	18.42	N
ATOM	1653	CA	GLY	A	214	23.302	22.944	-12.388	1.00	16.00	C
ATOM	1654	C	GLY	A	214	23.478	23.372	-13.836	1.00	15.48	C
ATOM	1655	O	GLY	A	214	22.665	24.123	-14.368	1.00	15.75	O
ATOM	1656	N	ASP	A	215	24.533	22.874	-14.474	1.00	19.81	N
ATOM	1657	CA	ASP	A	215	24.698	23.001	-15.922	1.00	21.08	C
ATOM	1658	CB	ASP	A	215	26.037	22.387	-16.358	1.00	22.08	C
ATOM	1659	CG	ASP	A	215	26.436	22.788	-17.770	1.00	24.99	C
ATOM	1660	OD1	ASP	A	215	25.795	22.323	-18.729	1.00	24.51	O
ATOM	1661	OD2	ASP	A	215	27.369	23.576	-18.017	1.00	28.31	O
ATOM	1662	C	ASP	A	215	23.548	22.285	-16.634	1.00	21.85	C
ATOM	1663	O	ASP	A	215	23.021	21.293	-16.136	1.00	20.21	O
ATOM	1664	N	LEU	A	216	23.166	22.811	-17.795	1.00	19.05	N
ATOM	1665	CA	LEU	A	216	22.198	22.192	-18.694	1.00	22.13	C
ATOM	1666	CB	LEU	A	216	22.241	22.951	-20.033	1.00	28.03	C
ATOM	1667	CG	LEU	A	216	21.293	22.605	-21.171	1.00	28.87	C
ATOM	1668	CD1	LEU	A	216	19.858	22.855	-20.753	1.00	32.10	C
ATOM	1669	CD2	LEU	A	216	21.640	23.444	-22.390	1.00	29.15	C
ATOM	1670	C	LEU	A	216	22.486	20.702	-18.935	1.00	22.08	C
ATOM	1671	O	LEU	A	216	21.564	19.883	-19.038	1.00	19.37	O
ATOM	1672	N	ARG	A	217	23.771	20.362	-19.005	1.00	20.19	N
ATOM	1673	CA	ARG	A	217	24.203	19.009	-19.359	1.00	20.92	C
ATOM	1674	CB	ARG	A	217	25.578	19.062	-20.040	1.00	20.98	C
ATOM	1675	CG	ARG	A	217	25.597	19.872	-21.320	1.00	26.58	C
ATOM	1676	CD	ARG	A	217	26.314	21.203	-21.158	1.00	36.86	C
ATOM	1677	NE	ARG	A	217	27.581	21.233	-21.860	1.00	39.02	N
ATOM	1678	CZ	ARG	A	217	28.563	22.101	-21.642	1.00	36.04	C
ATOM	1679	NH1	ARG	A	217	28.474	23.039	-20.703	1.00	30.86	N
ATOM	1680	NH2	ARG	A	217	29.659	22.013	-22.377	1.00	35.11	N
ATOM	1681	C	ARG	A	217	24.243	18.042	-18.175	1.00	22.68	C
ATOM	1682	O	ARG	A	217	24.562	16.865	-18.349	1.00	21.50	O
ATOM	1683	N	ASP	A	218	23.933	18.535	-16.976	1.00	20.38	N
ATOM	1684	CA	ASP	A	218	23.826	17.674	-15.802	1.00	22.85	C
ATOM	1685	CB	ASP	A	218	24.100	18.468	-14.515	1.00	22.39	C

ATOM	1686	CG	ASP	A	218	25.551	18.904	-14.393	1.00	29.80	C
ATOM	1687	OD1	ASP	A	218	25.822	19.914	-13.704	1.00	28.12	O
ATOM	1688	OD2	ASP	A	218	26.494	18.298	-14.948	1.00	29.63	O
ATOM	1689	C	ASP	A	218	22.422	17.085	-15.799	1.00	24.07	C
ATOM	1690	O	ASP	A	218	21.459	17.770	-15.461	1.00	25.32	O
ATOM	1691	N	ILE	A	219	22.305	15.820	-16.200	1.00	20.97	N
ATOM	1692	CA	ILE	A	219	20.994	15.232	-16.482	1.00	20.57	C
ATOM	1693	CB	ILE	A	219	20.865	14.887	-17.990	1.00	24.89	C
ATOM	1694	CG1	ILE	A	219	22.005	13.957	-18.434	1.00	26.25	C
ATOM	1695	CD1	ILE	A	219	21.657	13.077	-19.619	1.00	31.15	C
ATOM	1696	CG2	ILE	A	219	20.819	16.164	-18.837	1.00	24.18	C
ATOM	1697	C	ILE	A	219	20.658	14.005	-15.624	1.00	19.23	C
ATOM	1698	O	ILE	A	219	19.632	13.367	-15.835	1.00	21.70	O
ATOM	1699	N	GLY	A	220	21.512	13.698	-14.657	1.00	20.51	N
ATOM	1700	CA	GLY	A	220	21.353	12.507	-13.840	1.00	19.86	C
ATOM	1701	C	GLY	A	220	22.316	11.431	-14.291	1.00	24.42	C
ATOM	1702	O	GLY	A	220	22.991	11.592	-15.312	1.00	22.93	O
ATOM	1703	N	ALA	A	221	22.380	10.340	-13.530	1.00	23.56	N
ATOM	1704	CA	ALA	A	221	23.274	9.227	-13.833	1.00	26.17	C
ATOM	1705	CB	ALA	A	221	24.561	9.353	-13.038	1.00	28.69	C
ATOM	1706	C	ALA	A	221	22.590	7.901	-13.533	1.00	28.50	C
ATOM	1707	O	ALA	A	221	21.687	7.833	-12.690	1.00	25.84	O
ATOM	1708	N	GLY	A	222	23.024	6.851	-14.231	1.00	29.61	N
ATOM	1709	CA	GLY	A	222	22.475	5.516	-14.065	1.00	27.35	C
ATOM	1710	C	GLY	A	222	20.983	5.460	-14.308	1.00	26.35	C
ATOM	1711	O	GLY	A	222	20.488	5.968	-15.317	1.00	28.77	O
ATOM	1712	N	LYS	A	223	20.265	4.848	-13.369	1.00	28.08	N
ATOM	1713	CA	LYS	A	223	18.804	4.798	-13.403	1.00	29.76	C
ATOM	1714	CB	LYS	A	223	18.281	4.005	-12.203	1.00	33.86	C
ATOM	1715	CG	LYS	A	223	16.987	3.263	-12.453	1.00	43.52	C
ATOM	1716	CD	LYS	A	223	16.789	2.163	-11.419	1.00	47.26	C
ATOM	1717	CE	LYS	A	223	16.109	0.951	-12.032	1.00	51.41	C
ATOM	1718	NZ	LYS	A	223	14.764	0.712	-11.430	1.00	53.95	N
ATOM	1719	C	LYS	A	223	18.196	6.201	-13.393	1.00	25.53	C
ATOM	1720	O	LYS	A	223	17.078	6.403	-13.865	1.00	25.76	O
ATOM	1721	N	GLY	A	224	18.942	7.160	-12.853	1.00	24.20	N
ATOM	1722	CA	GLY	A	224	18.483	8.539	-12.793	1.00	26.21	C
ATOM	1723	C	GLY	A	224	18.809	9.399	-14.006	1.00	23.96	C
ATOM	1724	O	GLY	A	224	18.490	10.588	-14.010	1.00	22.79	O
ATOM	1725	N	LYS	A	225	19.445	8.822	-15.030	1.00	24.46	N
ATOM	1726	CA	LYS	A	225	19.758	9.583	-16.250	1.00	25.07	C
ATOM	1727	CB	LYS	A	225	20.605	8.753	-17.228	1.00	30.14	C
ATOM	1728	CG	LYS	A	225	21.169	9.556	-18.397	1.00	30.67	C
ATOM	1729	CD	LYS	A	225	21.867	8.656	-19.417	1.00	34.91	C
ATOM	1730	CE	LYS	A	225	23.093	9.341	-20.010	1.00	37.53	C
ATOM	1731	NZ	LYS	A	225	23.245	9.059	-21.470	1.00	40.99	N
ATOM	1732	C	LYS	A	225	18.494	10.096	-16.944	1.00	22.39	C
ATOM	1733	O	LYS	A	225	17.572	9.327	-17.219	1.00	26.02	O
ATOM	1734	N	TYR	A	226	18.481	11.399	-17.234	1.00	20.80	N
ATOM	1735	CA	TYR	A	226	17.327	12.130	-17.775	1.00	21.39	C
ATOM	1736	CB	TYR	A	226	16.680	11.408	-18.969	1.00	27.46	C
ATOM	1737	CG	TYR	A	226	17.644	11.160	-20.110	1.00	34.32	C
ATOM	1738	CD1	TYR	A	226	18.193	12.223	-20.831	1.00	34.28	C
ATOM	1739	CE1	TYR	A	226	19.085	11.997	-21.882	1.00	38.95	C
ATOM	1740	CZ	TYR	A	226	19.438	10.697	-22.208	1.00	40.15	C
ATOM	1741	OH	TYR	A	226	20.320	10.470	-23.238	1.00	47.70	O
ATOM	1742	CE2	TYR	A	226	18.908	9.626	-21.506	1.00	39.33	C
ATOM	1743	CD2	TYR	A	226	18.017	9.861	-20.461	1.00	35.12	C
ATOM	1744	C	TYR	A	226	16.273	12.533	-16.733	1.00	21.34	C
ATOM	1745	O	TYR	A	226	15.256	13.130	-17.082	1.00	23.47	O
ATOM	1746	N	TYR	A	227	16.533	12.236	-15.464	1.00	21.67	N
ATOM	1747	CA	TYR	A	227	15.610	12.608	-14.386	1.00	21.88	C
ATOM	1748	CB	TYR	A	227	15.293	11.397	-13.496	1.00	20.41	C

ATOM	1749	CG	TYR	A	227	14.556	10.315	-14.247	1.00	21.92	C
ATOM	1750	CD1	TYR	A	227	15.252	9.310	-14.924	1.00	24.45	C
ATOM	1751	CE1	TYR	A	227	14.576	8.324	-15.636	1.00	26.10	C
ATOM	1752	CZ	TYR	A	227	13.195	8.340	-15.670	1.00	26.27	C
ATOM	1753	OH	TYR	A	227	12.516	7.367	-16.358	1.00	29.33	O
ATOM	1754	CE2	TYR	A	227	12.483	9.325	-15.010	1.00	26.51	C
ATOM	1755	CD2	TYR	A	227	13.169	10.310	-14.305	1.00	24.03	C
ATOM	1756	C	TYR	A	227	16.105	13.793	-13.555	1.00	22.89	C
ATOM	1757	O	TYR	A	227	15.544	14.096	-12.501	1.00	22.20	O
ATOM	1758	N	ALA	A	228	17.170	14.443	-14.018	1.00	18.20	N
ATOM	1759	CA	ALA	A	228	17.564	15.736	-13.471	1.00	19.12	C
ATOM	1760	CB	ALA	A	228	18.976	15.696	-12.876	1.00	19.55	C
ATOM	1761	C	ALA	A	228	17.459	16.748	-14.602	1.00	22.76	C
ATOM	1762	O	ALA	A	228	17.926	16.498	-15.715	1.00	21.07	O
ATOM	1763	N	VAL	A	229	16.798	17.868	-14.325	1.00	20.83	N
ATOM	1764	CA	VAL	A	229	16.540	18.889	-15.333	1.00	18.59	C
ATOM	1765	CB	VAL	A	229	15.021	18.972	-15.684	1.00	19.99	C
ATOM	1766	CG1	VAL	A	229	14.735	20.056	-16.717	1.00	20.33	C
ATOM	1767	CG2	VAL	A	229	14.496	17.622	-16.191	1.00	21.82	C
ATOM	1768	C	VAL	A	229	17.054	20.215	-14.775	1.00	18.84	C
ATOM	1769	O	VAL	A	229	16.675	20.615	-13.678	1.00	19.22	O
ATOM	1770	N	ASN	A	230	17.936	20.872	-15.522	1.00	17.19	N
ATOM	1771	CA	ASN	A	230	18.523	22.132	-15.085	1.00	16.98	C
ATOM	1772	CB	ASN	A	230	20.013	21.935	-14.770	1.00	18.78	C
ATOM	1773	CG	ASN	A	230	20.230	21.134	-13.494	1.00	20.85	C
ATOM	1774	OD1	ASN	A	230	19.797	21.544	-12.419	1.00	21.17	O
ATOM	1775	ND2	ASN	A	230	20.874	19.976	-13.613	1.00	19.36	N
ATOM	1776	C	ASN	A	230	18.327	23.196	-16.149	1.00	18.42	C
ATOM	1777	O	ASN	A	230	18.668	22.975	-17.309	1.00	18.47	O
ATOM	1778	N	PHE	A	231	17.747	24.330	-15.754	1.00	17.18	N
ATOM	1779	CA	PHE	A	231	17.548	25.464	-16.654	1.00	12.60	C
ATOM	1780	CB	PHE	A	231	16.065	25.876	-16.702	1.00	16.28	C
ATOM	1781	CG	PHE	A	231	15.694	26.676	-17.932	1.00	17.90	C
ATOM	1782	CD1	PHE	A	231	14.694	26.234	-18.793	1.00	19.55	C
ATOM	1783	CE1	PHE	A	231	14.361	26.957	-19.935	1.00	22.20	C
ATOM	1784	CZ	PHE	A	231	15.029	28.146	-20.219	1.00	20.26	C
ATOM	1785	CE2	PHE	A	231	16.021	28.604	-19.365	1.00	21.19	C
ATOM	1786	CD2	PHE	A	231	16.352	27.870	-18.227	1.00	15.75	C
ATOM	1787	C	PHE	A	231	18.430	26.625	-16.175	1.00	16.05	C
ATOM	1788	O	PHE	A	231	18.024	27.403	-15.307	1.00	15.64	O
ATOM	1789	N	PRO	A	232	19.646	26.720	-16.712	1.00	17.02	N
ATOM	1790	CA	PRO	A	232	20.567	27.793	-16.320	1.00	16.50	C
ATOM	1791	CB	PRO	A	232	21.912	27.341	-16.912	1.00	17.28	C
ATOM	1792	CG	PRO	A	232	21.564	26.449	-18.040	1.00	17.71	C
ATOM	1793	CD	PRO	A	232	20.240	25.820	-17.720	1.00	16.67	C
ATOM	1794	C	PRO	A	232	20.127	29.116	-16.926	1.00	18.05	C
ATOM	1795	O	PRO	A	232	19.744	29.162	-18.101	1.00	19.34	O
ATOM	1796	N	MET	A	233	20.180	30.177	-16.127	1.00	17.23	N
ATOM	1797	CA	MET	A	233	19.758	31.496	-16.573	1.00	16.00	C
ATOM	1798	CB	MET	A	233	18.442	31.902	-15.892	1.00	16.71	C
ATOM	1799	CG	MET	A	233	17.215	31.093	-16.298	1.00	22.44	C
ATOM	1800	SD	MET	A	233	15.915	31.226	-15.043	1.00	28.75	S
ATOM	1801	CE	MET	A	233	14.623	30.205	-15.795	1.00	29.76	C
ATOM	1802	C	MET	A	233	20.832	32.532	-16.248	1.00	16.91	C
ATOM	1803	O	MET	A	233	21.754	32.276	-15.471	1.00	17.92	O
ATOM	1804	N	ARG	A	234	20.688	33.705	-16.845	1.00	15.79	N
ATOM	1805	CA	ARG	A	234	21.584	34.831	-16.611	1.00	18.92	C
ATOM	1806	CB	ARG	A	234	22.000	35.455	-17.949	1.00	20.22	C
ATOM	1807	CG	ARG	A	234	22.547	34.461	-18.969	1.00	17.81	C
ATOM	1808	CD	ARG	A	234	24.040	34.207	-18.849	1.00	30.06	C
ATOM	1809	NE	ARG	A	234	24.316	32.934	-18.204	1.00	36.21	N
ATOM	1810	CZ	ARG	A	234	24.812	31.858	-18.809	1.00	33.40	C
ATOM	1811	NH1	ARG	A	234	25.014	30.764	-18.101	1.00	35.66	N

ATOM	1812	NH2	ARG	A	234	25.111	31.863	-20.102	1.00	33.37	N
ATOM	1813	C	ARG	A	234	20.893	35.885	-15.750	1.00	20.84	C
ATOM	1814	O	ARG	A	234	19.697	35.779	-15.463	1.00	17.66	O
ATOM	1815	N	ASP	A	235	21.658	36.905	-15.355	1.00	21.16	N
ATOM	1816	CA	ASP	A	235	21.143	38.052	-14.608	1.00	23.37	C
ATOM	1817	CB	ASP	A	235	22.202	39.160	-14.558	1.00	30.77	C
ATOM	1818	CG	ASP	A	235	23.296	38.884	-13.561	1.00	37.64	C
ATOM	1819	OD1	ASP	A	235	23.263	37.824	-12.910	1.00	41.12	O
ATOM	1820	OD2	ASP	A	235	24.239	39.678	-13.360	1.00	42.19	O
ATOM	1821	C	ASP	A	235	19.893	38.658	-15.226	1.00	22.18	C
ATOM	1822	O	ASP	A	235	19.751	38.705	-16.453	1.00	20.28	O
ATOM	1823	N	GLY	A	236	18.998	39.127	-14.361	1.00	19.53	N
ATOM	1824	CA	GLY	A	236	17.950	40.051	-14.755	1.00	21.05	C
ATOM	1825	C	GLY	A	236	16.701	39.502	-15.395	1.00	20.67	C
ATOM	1826	O	GLY	A	236	15.948	40.262	-15.994	1.00	20.77	O
ATOM	1827	N	ILE	A	237	16.460	38.196	-15.275	1.00	20.86	N
ATOM	1828	CA	ILE	A	237	15.252	37.611	-15.852	1.00	20.82	C
ATOM	1829	CB	ILE	A	237	15.223	36.060	-15.703	1.00	25.44	C
ATOM	1830	CG1	ILE	A	237	14.125	35.464	-16.588	1.00	25.50	C
ATOM	1831	CD1	ILE	A	237	14.374	34.035	-17.002	1.00	29.42	C
ATOM	1832	CG2	ILE	A	237	15.035	35.642	-14.246	1.00	18.29	C
ATOM	1833	C	ILE	A	237	14.013	38.261	-15.245	1.00	20.54	C
ATOM	1834	O	ILE	A	237	13.990	38.586	-14.053	1.00	21.69	O
ATOM	1835	N	ASP	A	238	13.004	38.472	-16.079	1.00	20.91	N
ATOM	1836	CA	ASP	A	238	11.770	39.111	-15.651	1.00	25.19	C
ATOM	1837	CB	ASP	A	238	11.508	40.409	-16.433	1.00	28.05	C
ATOM	1838	CG	ASP	A	238	11.508	40.214	-17.944	1.00	35.95	C
ATOM	1839	OD1	ASP	A	238	11.142	39.125	-18.440	1.00	32.33	O
ATOM	1840	OD2	ASP	A	238	11.855	41.126	-18.724	1.00	42.70	O
ATOM	1841	C	ASP	A	238	10.588	38.153	-15.730	1.00	24.19	C
ATOM	1842	O	ASP	A	238	10.745	37.002	-16.153	1.00	25.52	O
ATOM	1843	N	ASP	A	239	9.419	38.625	-15.300	1.00	19.70	N
ATOM	1844	CA	ASP	A	239	8.215	37.794	-15.205	1.00	20.84	C
ATOM	1845	CB	ASP	A	239	7.017	38.636	-14.763	1.00	22.23	C
ATOM	1846	CG	ASP	A	239	7.119	39.098	-13.325	1.00	28.33	C
ATOM	1847	OD1	ASP	A	239	8.008	38.607	-12.588	1.00	24.75	O
ATOM	1848	OD2	ASP	A	239	6.332	39.947	-12.845	1.00	27.66	O
ATOM	1849	C	ASP	A	239	7.863	37.111	-16.525	1.00	27.97	C
ATOM	1850	O	ASP	A	239	7.538	35.918	-16.550	1.00	22.92	O
ATOM	1851	N	GLU	A	240	7.929	37.879	-17.611	1.00	30.52	N
ATOM	1852	CA	GLU	A	240	7.500	37.408	-18.926	1.00	36.04	C
ATOM	1853	CB	GLU	A	240	7.346	38.578	-19.895	1.00	40.85	C
ATOM	1854	CG	GLU	A	240	6.248	38.375	-20.927	1.00	50.92	C
ATOM	1855	CD	GLU	A	240	6.239	39.462	-21.986	1.00	56.38	C
ATOM	1856	OE1	GLU	A	240	7.090	39.413	-22.901	1.00	58.92	O
ATOM	1857	OE2	GLU	A	240	5.383	40.370	-21.902	1.00	57.05	O
ATOM	1858	C	GLU	A	240	8.436	36.349	-19.503	1.00	30.43	C
ATOM	1859	O	GLU	A	240	7.974	35.346	-20.042	1.00	34.94	O
ATOM	1860	N	SER	A	241	9.741	36.576	-19.388	1.00	27.70	N
ATOM	1861	CA	SER	A	241	10.737	35.599	-19.823	1.00	30.76	C
ATOM	1862	CB	SER	A	241	12.142	36.191	-19.745	1.00	33.64	C
ATOM	1863	OG	SER	A	241	12.201	37.427	-20.436	1.00	41.91	O
ATOM	1864	C	SER	A	241	10.658	34.298	-19.013	1.00	28.78	C
ATOM	1865	O	SER	A	241	10.735	33.204	-19.579	1.00	27.67	O
ATOM	1866	N	TYR	A	242	10.483	34.425	-17.698	1.00	22.39	N
ATOM	1867	CA	TYR	A	242	10.365	33.264	-16.815	1.00	23.43	C
ATOM	1868	CB	TYR	A	242	10.383	33.706	-15.350	1.00	21.16	C
ATOM	1869	CG	TYR	A	242	10.898	32.682	-14.353	1.00	21.53	C
ATOM	1870	CD1	TYR	A	242	12.206	32.758	-13.862	1.00	21.03	C
ATOM	1871	CE1	TYR	A	242	12.683	31.837	-12.932	1.00	21.15	C
ATOM	1872	CZ	TYR	A	242	11.846	30.825	-12.478	1.00	20.20	C
ATOM	1873	OH	TYR	A	242	12.315	29.921	-11.554	1.00	19.17	O
ATOM	1874	CE2	TYR	A	242	10.540	30.733	-12.940	1.00	24.73	C

ATOM	1875	CD2	TYR	A	242	10.070	31.666	-13.868	1.00	24.54	C
ATOM	1876	C	TYR	A	242	9.089	32.479	-17.105	1.00	21.69	C
ATOM	1877	O	TYR	A	242	9.136	31.264	-17.268	1.00	24.85	O
ATOM	1878	N	GLY	A	243	7.958	33.179	-17.170	1.00	26.58	N
ATOM	1879	CA	GLY	A	243	6.654	32.552	-17.351	1.00	31.83	C
ATOM	1880	C	GLY	A	243	6.478	31.786	-18.653	1.00	34.44	C
ATOM	1881	O	GLY	A	243	5.811	30.742	-18.683	1.00	34.46	O
ATOM	1882	N	GLN	A	244	7.093	32.304	-19.717	1.00	31.10	N
ATOM	1883	CA	GLN	A	244	7.055	31.698	-21.048	1.00	37.32	C
ATOM	1884	CB	GLN	A	244	7.591	32.682	-22.096	1.00	43.14	C
ATOM	1885	CG	GLN	A	244	6.605	33.775	-22.518	1.00	51.70	C
ATOM	1886	CD	GLN	A	244	5.498	33.262	-23.424	1.00	56.17	C
ATOM	1887	OE1	GLN	A	244	5.756	32.840	-24.555	1.00	57.52	O
ATOM	1888	NE2	GLN	A	244	4.262	33.296	-22.929	1.00	56.84	N
ATOM	1889	C	GLN	A	244	7.860	30.400	-21.115	1.00	35.19	C
ATOM	1890	O	GLN	A	244	7.784	29.662	-22.096	1.00	34.27	O
ATOM	1891	N	ILE	A	245	8.629	30.133	-20.066	1.00	26.66	N
ATOM	1892	CA	ILE	A	245	9.464	28.950	-20.000	1.00	25.55	C
ATOM	1893	CB	ILE	A	245	10.952	29.398	-19.856	1.00	29.44	C
ATOM	1894	CG1	ILE	A	245	11.706	29.061	-21.140	1.00	29.51	C
ATOM	1895	CD1	ILE	A	245	11.168	29.777	-22.370	1.00	30.51	C
ATOM	1896	CG2	ILE	A	245	11.622	28.888	-18.563	1.00	30.64	C
ATOM	1897	C	ILE	A	245	9.012	27.958	-18.926	1.00	24.16	C
ATOM	1898	O	ILE	A	245	9.061	26.743	-19.127	1.00	22.55	O
ATOM	1899	N	PHE	A	246	8.535	28.479	-17.802	1.00	21.41	N
ATOM	1900	CA	PHE	A	246	8.164	27.632	-16.672	1.00	20.29	C
ATOM	1901	CB	PHE	A	246	7.861	28.495	-15.437	1.00	18.73	C
ATOM	1902	CG	PHE	A	246	7.621	27.699	-14.196	1.00	19.99	C
ATOM	1903	CD1	PHE	A	246	6.319	27.385	-13.797	1.00	21.10	C
ATOM	1904	CE1	PHE	A	246	6.090	26.629	-12.649	1.00	21.90	C
ATOM	1905	CZ	PHE	A	246	7.172	26.195	-11.879	1.00	18.69	C
ATOM	1906	CE2	PHE	A	246	8.476	26.504	-12.274	1.00	17.44	C
ATOM	1907	CD2	PHE	A	246	8.692	27.251	-13.429	1.00	19.85	C
ATOM	1908	C	PHE	A	246	6.972	26.724	-17.008	1.00	21.04	C
ATOM	1909	O	PHE	A	246	7.055	25.499	-16.868	1.00	20.55	O
ATOM	1910	N	LYS	A	247	5.873	27.323	-17.456	1.00	17.93	N
ATOM	1911	CA	LYS	A	247	4.664	26.549	-17.758	1.00	22.59	C
ATOM	1912	CB	LYS	A	247	3.493	27.459	-18.160	1.00	26.10	C
ATOM	1913	CG	LYS	A	247	2.143	26.746	-18.151	1.00	34.13	C
ATOM	1914	CD	LYS	A	247	1.001	27.682	-18.485	1.00	40.97	C
ATOM	1915	CE	LYS	A	247	-0.319	26.920	-18.531	1.00	46.16	C
ATOM	1916	NZ	LYS	A	247	-1.190	27.402	-19.640	1.00	50.07	N
ATOM	1917	C	LYS	A	247	4.896	25.411	-18.781	1.00	22.35	C
ATOM	1918	O	LYS	A	247	4.552	24.265	-18.487	1.00	23.32	O
ATOM	1919	N	PRO	A	248	5.485	25.698	-19.949	1.00	22.62	N
ATOM	1920	CA	PRO	A	248	5.805	24.632	-20.918	1.00	22.76	C
ATOM	1921	CB	PRO	A	248	6.490	25.388	-22.066	1.00	25.89	C
ATOM	1922	CG	PRO	A	248	6.025	26.800	-21.931	1.00	24.41	C
ATOM	1923	CD	PRO	A	248	5.860	27.031	-20.463	1.00	22.52	C
ATOM	1924	C	PRO	A	248	6.728	23.525	-20.384	1.00	24.03	C
ATOM	1925	O	PRO	A	248	6.478	22.353	-20.681	1.00	24.67	O
ATOM	1926	N	ILE	A	249	7.772	23.875	-19.629	1.00	18.03	N
ATOM	1927	CA	ILE	A	249	8.669	22.863	-19.073	1.00	18.27	C
ATOM	1928	CB	ILE	A	249	9.959	23.489	-18.469	1.00	20.02	C
ATOM	1929	CG1	ILE	A	249	10.841	24.113	-19.564	1.00	22.35	C
ATOM	1930	CD1	ILE	A	249	11.665	23.118	-20.385	1.00	32.72	C
ATOM	1931	CG2	ILE	A	249	10.746	22.452	-17.647	1.00	18.35	C
ATOM	1932	C	ILE	A	249	7.952	21.977	-18.049	1.00	21.23	C
ATOM	1933	O	ILE	A	249	8.059	20.748	-18.105	1.00	20.10	O
ATOM	1934	N	ILE	A	250	7.219	22.599	-17.129	1.00	17.71	N
ATOM	1935	CA	ILE	A	250	6.513	21.849	-16.086	1.00	16.89	C
ATOM	1936	CB	ILE	A	250	5.975	22.790	-14.970	1.00	21.22	C
ATOM	1937	CG1	ILE	A	250	7.142	23.465	-14.219	1.00	20.72	C

ATOM	1938	CD1	ILE	A	250	8.282	22.522	-13.781	1.00	19.49	C
ATOM	1939	CG2	ILE	A	250	5.085	22.022	-13.972	1.00	23.08	C
ATOM	1940	C	ILE	A	250	5.409	20.982	-16.702	1.00	19.54	C
ATOM	1941	O	ILE	A	250	5.250	19.824	-16.313	1.00	19.99	O
ATOM	1942	N	SER	A	251	4.691	21.524	-17.683	1.00	19.28	N
ATOM	1943	CA	SER	A	251	3.637	20.762	-18.357	1.00	23.94	C
ATOM	1944	CB	SER	A	251	2.897	21.617	-19.381	1.00	23.65	C
ATOM	1945	OG	SER	A	251	2.339	22.762	-18.762	1.00	31.13	O
ATOM	1946	C	SER	A	251	4.203	19.512	-19.025	1.00	21.56	C
ATOM	1947	O	SER	A	251	3.610	18.437	-18.937	1.00	25.09	O
ATOM	1948	N	LYS	A	252	5.351	19.661	-19.680	1.00	23.02	N
ATOM	1949	CA	LYS	A	252	6.010	18.542	-20.351	1.00	25.65	C
ATOM	1950	CB	LYS	A	252	7.147	19.044	-21.245	1.00	30.10	C
ATOM	1951	CG	LYS	A	252	7.721	17.989	-22.203	1.00	34.38	C
ATOM	1952	CD	LYS	A	252	6.720	17.582	-23.284	1.00	39.91	C
ATOM	1953	CE	LYS	A	252	6.698	18.580	-24.436	1.00	45.84	C
ATOM	1954	NZ	LYS	A	252	5.633	18.256	-25.431	1.00	50.28	N
ATOM	1955	C	LYS	A	252	6.540	17.514	-19.354	1.00	26.73	C
ATOM	1956	O	LYS	A	252	6.435	16.296	-19.576	1.00	21.80	O
ATOM	1957	N	VAL	A	253	7.113	18.010	-18.259	1.00	20.90	N
ATOM	1958	CA	VAL	A	253	7.596	17.153	-17.189	1.00	21.20	C
ATOM	1959	CB	VAL	A	253	8.332	17.967	-16.086	1.00	22.54	C
ATOM	1960	CG1	VAL	A	253	8.493	17.156	-14.818	1.00	27.03	C
ATOM	1961	CG2	VAL	A	253	9.700	18.439	-16.585	1.00	23.61	C
ATOM	1962	C	VAL	A	253	6.440	16.337	-16.603	1.00	21.75	C
ATOM	1963	O	VAL	A	253	6.562	15.115	-16.438	1.00	28.18	O
ATOM	1964	N	MET	A	254	5.329	17.010	-16.310	1.00	20.96	N
ATOM	1965	CA	MET	A	254	4.129	16.355	-15.780	1.00	23.23	C
ATOM	1966	CB	MET	A	254	3.026	17.378	-15.512	1.00	24.89	C
ATOM	1967	CG	MET	A	254	3.301	18.306	-14.333	1.00	25.26	C
ATOM	1968	SD	MET	A	254	3.211	17.475	-12.749	1.00	27.71	S
ATOM	1969	CE	MET	A	254	3.201	18.922	-11.638	1.00	24.41	C
ATOM	1970	C	MET	A	254	3.606	15.265	-16.719	1.00	27.64	C
ATOM	1971	O	MET	A	254	3.236	14.179	-16.267	1.00	28.34	O
ATOM	1972	N	GLU	A	255	3.591	15.562	-18.018	1.00	28.31	N
ATOM	1973	CA	GLU	A	255	3.119	14.624	-19.040	1.00	31.47	C
ATOM	1974	CB	GLU	A	255	2.969	15.338	-20.398	1.00	35.10	C
ATOM	1975	CG	GLU	A	255	2.919	14.411	-21.609	1.00	46.02	C
ATOM	1976	CD	GLU	A	255	2.706	15.145	-22.925	1.00	51.56	C
ATOM	1977	OE1	GLU	A	255	3.696	15.644	-23.506	1.00	52.84	O
ATOM	1978	OE2	GLU	A	255	1.547	15.212	-23.386	1.00	54.42	O
ATOM	1979	C	GLU	A	255	4.032	13.395	-19.157	1.00	29.19	C
ATOM	1980	O	GLU	A	255	3.553	12.258	-19.216	1.00	29.05	O
ATOM	1981	N	MET	A	256	5.340	13.635	-19.177	1.00	25.93	N
ATOM	1982	CA	MET	A	256	6.329	12.576	-19.358	1.00	24.95	C
ATOM	1983	CB	MET	A	256	7.660	13.150	-19.866	1.00	28.00	C
ATOM	1984	CG	MET	A	256	7.609	13.797	-21.247	1.00	32.79	C
ATOM	1985	SD	MET	A	256	6.953	12.713	-22.541	1.00	40.01	S
ATOM	1986	CE	MET	A	256	8.174	11.379	-22.544	1.00	37.27	C
ATOM	1987	C	MET	A	256	6.575	11.758	-18.095	1.00	27.45	C
ATOM	1988	O	MET	A	256	6.674	10.530	-18.159	1.00	27.18	O
ATOM	1989	N	TYR	A	257	6.681	12.434	-16.951	1.00	24.08	N
ATOM	1990	CA	TYR	A	257	7.103	11.782	-15.709	1.00	24.72	C
ATOM	1991	CB	TYR	A	257	7.964	12.728	-14.862	1.00	23.35	C
ATOM	1992	CG	TYR	A	257	8.598	12.082	-13.650	1.00	20.86	C
ATOM	1993	CD1	TYR	A	257	8.373	12.597	-12.373	1.00	22.18	C
ATOM	1994	CE1	TYR	A	257	8.949	12.014	-11.253	1.00	18.84	C
ATOM	1995	CZ	TYR	A	257	9.758	10.909	-11.400	1.00	22.57	C
ATOM	1996	OH	TYR	A	257	10.325	10.342	-10.290	1.00	23.25	O
ATOM	1997	CE2	TYR	A	257	9.999	10.366	-12.658	1.00	19.50	C
ATOM	1998	CD2	TYR	A	257	9.422	10.959	-13.774	1.00	19.95	C
ATOM	1999	C	TYR	A	257	5.952	11.230	-14.872	1.00	21.11	C
ATOM	2000	O	TYR	A	257	6.130	10.253	-14.144	1.00	23.78	O

ATOM	2001	N	GLN	A	258	4.786	11.862	-14.978	1.00	22.41	N
ATOM	2002	CA	GLN	A	258	3.575	11.443	-14.257	1.00	24.97	C
ATOM	2003	CB	GLN	A	258	2.964	10.200	-14.919	1.00	28.34	C
ATOM	2004	CG	GLN	A	258	2.686	10.361	-16.390	1.00	35.90	C
ATOM	2005	CD	GLN	A	258	1.225	10.187	-16.695	1.00	43.07	C
ATOM	2006	OE1	GLN	A	258	0.770	9.069	-16.945	1.00	42.69	O
ATOM	2007	NE2	GLN	A	258	0.476	11.284	-16.655	1.00	45.07	N
ATOM	2008	C	GLN	A	258	3.816	11.174	-12.768	1.00	24.15	C
ATOM	2009	O	GLN	A	258	3.580	10.054	-12.290	1.00	23.95	O
ATOM	2010	N	PRO	A	259	4.278	12.191	-12.032	1.00	23.20	N
ATOM	2011	CA	PRO	A	259	4.542	12.031	-10.598	1.00	20.98	C
ATOM	2012	CB	PRO	A	259	5.246	13.346	-10.222	1.00	20.31	C
ATOM	2013	CG	PRO	A	259	4.722	14.349	-11.209	1.00	21.72	C
ATOM	2014	CD	PRO	A	259	4.544	13.570	-12.491	1.00	23.26	C
ATOM	2015	C	PRO	A	259	3.223	11.907	-9.851	1.00	19.65	C
ATOM	2016	O	PRO	A	259	2.195	12.342	-10.371	1.00	20.26	O
ATOM	2017	N	SER	A	260	3.240	11.324	-8.655	1.00	22.29	N
ATOM	2018	CA	SER	A	260	2.029	11.303	-7.841	1.00	21.87	C
ATOM	2019	CB	SER	A	260	1.728	9.889	-7.338	1.00	22.63	C
ATOM	2020	OG	SER	A	260	2.886	9.301	-6.795	1.00	28.12	O
ATOM	2021	C	SER	A	260	2.096	12.305	-6.677	1.00	23.40	C
ATOM	2022	O	SER	A	260	1.120	12.475	-5.937	1.00	19.22	O
ATOM	2023	N	ALA	A	261	3.247	12.960	-6.517	1.00	20.90	N
ATOM	2024	CA	ALA	A	261	3.399	14.033	-5.531	1.00	18.31	C
ATOM	2025	CB	ALA	A	261	3.771	13.485	-4.171	1.00	19.24	C
ATOM	2026	C	ALA	A	261	4.444	15.033	-5.998	1.00	18.83	C
ATOM	2027	O	ALA	A	261	5.348	14.690	-6.765	1.00	18.33	O
ATOM	2028	N	VAL	A	262	4.309	16.268	-5.530	1.00	17.08	N
ATOM	2029	CA	VAL	A	262	5.192	17.355	-5.950	1.00	14.45	C
ATOM	2030	CB	VAL	A	262	4.467	18.335	-6.899	1.00	17.87	C
ATOM	2031	CG1	VAL	A	262	5.425	19.448	-7.402	1.00	17.67	C
ATOM	2032	CG2	VAL	A	262	3.850	17.597	-8.083	1.00	20.33	C
ATOM	2033	C	VAL	A	262	5.726	18.108	-4.732	1.00	15.66	C
ATOM	2034	O	VAL	A	262	4.993	18.354	-3.776	1.00	16.13	O
ATOM	2035	N	VAL	A	263	7.010	18.452	-4.771	1.00	13.90	N
ATOM	2036	CA	VAL	A	263	7.610	19.316	-3.757	1.00	16.19	C
ATOM	2037	CB	VAL	A	263	8.761	18.612	-3.000	1.00	15.30	C
ATOM	2038	CG1	VAL	A	263	9.442	19.559	-2.010	1.00	13.82	C
ATOM	2039	CG2	VAL	A	263	8.245	17.387	-2.264	1.00	17.44	C
ATOM	2040	C	VAL	A	263	8.112	20.557	-4.495	1.00	18.19	C
ATOM	2041	O	VAL	A	263	8.906	20.447	-5.436	1.00	16.67	O
ATOM	2042	N	LEU	A	264	7.624	21.722	-4.080	1.00	15.22	N
ATOM	2043	CA	LEU	A	264	8.000	22.985	-4.700	1.00	14.01	C
ATOM	2044	CB	LEU	A	264	6.754	23.716	-5.227	1.00	14.88	C
ATOM	2045	CG	LEU	A	264	6.954	25.096	-5.875	1.00	17.21	C
ATOM	2046	CD1	LEU	A	264	7.772	24.986	-7.161	1.00	15.60	C
ATOM	2047	CD2	LEU	A	264	5.595	25.735	-6.169	1.00	18.91	C
ATOM	2048	C	LEU	A	264	8.769	23.843	-3.694	1.00	17.32	C
ATOM	2049	O	LEU	A	264	8.234	24.218	-2.643	1.00	15.70	O
ATOM	2050	N	GLN	A	265	10.039	24.105	-4.005	1.00	14.85	N
ATOM	2051	CA	GLN	A	265	10.867	25.009	-3.215	1.00	13.14	C
ATOM	2052	CB	GLN	A	265	12.334	24.545	-3.252	1.00	15.15	C
ATOM	2053	CG	GLN	A	265	13.230	25.077	-2.130	1.00	14.21	C
ATOM	2054	CD	GLN	A	265	13.991	26.327	-2.535	1.00	15.72	C
ATOM	2055	OE1	GLN	A	265	13.563	27.053	-3.441	1.00	20.01	O
ATOM	2056	NE2	GLN	A	265	15.115	26.587	-1.870	1.00	15.52	N
ATOM	2057	C	GLN	A	265	10.680	26.413	-3.813	1.00	15.15	C
ATOM	2058	O	GLN	A	265	10.887	26.617	-5.014	1.00	14.45	O
ATOM	2059	N	CYS	A	266	10.253	27.367	-2.983	1.00	12.99	N
ATOM	2060	CA	CYS	A	266	9.863	28.692	-3.468	1.00	14.78	C
ATOM	2061	CB	CYS	A	266	8.445	29.049	-2.997	1.00	18.11	C
ATOM	2062	SG	CYS	A	266	7.164	27.838	-3.408	1.00	21.88	S
ATOM	2063	C	CYS	A	266	10.814	29.766	-2.972	1.00	16.35	C

ATOM	2064	O	CYS	A	266	10.368	30.823	-2.512	1.00	18.50	O
ATOM	2065	N	GLY	A	267	12.114	29.502	-3.063	1.00	16.88	N
ATOM	2066	CA	GLY	A	267	13.118	30.468	-2.639	1.00	15.76	C
ATOM	2067	C	GLY	A	267	12.830	31.851	-3.200	1.00	15.57	C
ATOM	2068	O	GLY	A	267	12.658	32.010	-4.410	1.00	18.40	O
ATOM	2069	N	ALA	A	268	12.763	32.844	-2.316	1.00	16.62	N
ATOM	2070	CA	ALA	A	268	12.361	34.201	-2.684	1.00	15.89	C
ATOM	2071	CB	ALA	A	268	11.556	34.848	-1.535	1.00	16.08	C
ATOM	2072	C	ALA	A	268	13.549	35.083	-3.081	1.00	16.55	C
ATOM	2073	O	ALA	A	268	13.386	36.280	-3.326	1.00	17.81	O
ATOM	2074	N	ASP	A	269	14.737	34.493	-3.170	1.00	15.03	N
ATOM	2075	CA	ASP	A	269	15.899	35.245	-3.634	1.00	14.24	C
ATOM	2076	CB	ASP	A	269	17.215	34.685	-3.072	1.00	13.50	C
ATOM	2077	CG	ASP	A	269	17.361	33.196	-3.272	1.00	18.62	C
ATOM	2078	OD1	ASP	A	269	16.544	32.581	-3.999	1.00	15.42	O
ATOM	2079	OD2	ASP	A	269	18.293	32.559	-2.738	1.00	17.13	O
ATOM	2080	C	ASP	A	269	15.951	35.439	-5.157	1.00	17.65	C
ATOM	2081	O	ASP	A	269	16.858	36.084	-5.677	1.00	15.85	O
ATOM	2082	N	SER	A	270	14.961	34.894	-5.861	1.00	15.27	N
ATOM	2083	CA	SER	A	270	14.793	35.154	-7.288	1.00	16.54	C
ATOM	2084	CB	SER	A	270	14.186	33.940	-7.997	1.00	19.60	C
ATOM	2085	OG	SER	A	270	13.184	33.341	-7.199	1.00	20.56	O
ATOM	2086	C	SER	A	270	13.950	36.410	-7.558	1.00	19.77	C
ATOM	2087	O	SER	A	270	13.647	36.727	-8.719	1.00	17.26	O
ATOM	2088	N	LEU	A	271	13.578	37.126	-6.493	1.00	16.74	N
ATOM	2089	CA	LEU	A	271	12.815	38.366	-6.631	1.00	17.79	C
ATOM	2090	CB	LEU	A	271	12.014	38.672	-5.361	1.00	15.78	C
ATOM	2091	CG	LEU	A	271	10.886	37.701	-4.989	1.00	18.28	C
ATOM	2092	CD1	LEU	A	271	10.391	38.013	-3.572	1.00	16.29	C
ATOM	2093	CD2	LEU	A	271	9.732	37.736	-6.004	1.00	17.72	C
ATOM	2094	C	LEU	A	271	13.691	39.569	-6.929	1.00	18.08	C
ATOM	2095	O	LEU	A	271	14.836	39.661	-6.465	1.00	18.83	O
ATOM	2096	N	SER	A	272	13.119	40.492	-7.693	1.00	20.22	N
ATOM	2097	CA	SER	A	272	13.682	41.822	-7.899	1.00	22.06	C
ATOM	2098	CB	SER	A	272	12.652	42.711	-8.594	1.00	22.22	C
ATOM	2099	OG	SER	A	272	13.131	44.040	-8.702	1.00	27.40	O
ATOM	2100	C	SER	A	272	14.060	42.450	-6.564	1.00	24.05	C
ATOM	2101	O	SER	A	272	13.283	42.389	-5.600	1.00	21.60	O
ATOM	2102	N	GLY	A	273	15.256	43.035	-6.518	1.00	23.09	N
ATOM	2103	CA	GLY	A	273	15.729	43.736	-5.336	1.00	24.52	C
ATOM	2104	C	GLY	A	273	16.285	42.867	-4.220	1.00	20.60	C
ATOM	2105	O	GLY	A	273	16.557	43.372	-3.131	1.00	21.43	O
ATOM	2106	N	ASP	A	274	16.458	41.568	-4.461	1.00	17.81	N
ATOM	2107	CA	ASP	A	274	17.041	40.721	-3.429	1.00	19.13	C
ATOM	2108	CB	ASP	A	274	16.992	39.241	-3.792	1.00	18.22	C
ATOM	2109	CG	ASP	A	274	17.419	38.369	-2.640	1.00	22.92	C
ATOM	2110	OD1	ASP	A	274	16.576	38.125	-1.745	1.00	20.07	O
ATOM	2111	OD2	ASP	A	274	18.587	37.930	-2.521	1.00	24.08	O
ATOM	2112	C	ASP	A	274	18.482	41.126	-3.152	1.00	21.68	C
ATOM	2113	O	ASP	A	274	19.229	41.457	-4.078	1.00	23.24	O
ATOM	2114	N	ARG	A	275	18.857	41.099	-1.877	1.00	21.43	N
ATOM	2115	CA	ARG	A	275	20.196	41.500	-1.441	1.00	24.72	C
ATOM	2116	CB	ARG	A	275	20.317	41.395	0.085	1.00	27.55	C
ATOM	2117	CG	ARG	A	275	19.865	42.630	0.853	1.00	37.75	C
ATOM	2118	CD	ARG	A	275	20.260	42.632	2.334	1.00	42.19	C
ATOM	2119	NE	ARG	A	275	21.629	42.155	2.554	1.00	49.44	N
ATOM	2120	CZ	ARG	A	275	22.137	41.810	3.739	1.00	51.16	C
ATOM	2121	NH1	ARG	A	275	21.401	41.884	4.843	1.00	49.94	N
ATOM	2122	NH2	ARG	A	275	23.393	41.389	3.821	1.00	50.89	N
ATOM	2123	C	ARG	A	275	21.301	40.673	-2.085	1.00	23.16	C
ATOM	2124	O	ARG	A	275	22.381	41.192	-2.368	1.00	23.33	O
ATOM	2125	N	LEU	A	276	21.047	39.380	-2.287	1.00	20.45	N
ATOM	2126	CA	LEU	A	276	22.061	38.482	-2.840	1.00	21.95	C

ATOM	2127	CB	LEU	A	276	22.224	37.227	-1.965	1.00	22.48	C
ATOM	2128	CG	LEU	A	276	22.605	37.409	-0.486	1.00	24.23	C
ATOM	2129	CD1	LEU	A	276	22.829	36.056	0.183	1.00	22.94	C
ATOM	2130	CD2	LEU	A	276	23.831	38.314	-0.287	1.00	27.10	C
ATOM	2131	C	LEU	A	276	21.798	38.082	-4.290	1.00	25.48	C
ATOM	2132	O	LEU	A	276	22.727	37.768	-5.028	1.00	31.92	O
ATOM	2133	N	GLY	A	277	20.537	38.094	-4.697	1.00	23.11	N
ATOM	2134	CA	GLY	A	277	20.163	37.631	-6.023	1.00	22.99	C
ATOM	2135	C	GLY	A	277	20.168	38.711	-7.085	1.00	26.70	C
ATOM	2136	O	GLY	A	277	20.081	39.900	-6.769	1.00	27.37	O
ATOM	2137	N	CYS	A	278	20.253	38.294	-8.347	1.00	21.60	N
ATOM	2138	CA	CYS	A	278	20.279	39.224	-9.474	1.00	23.23	C
ATOM	2139	CB	CYS	A	278	21.661	39.240	-10.143	1.00	34.11	C
ATOM	2140	SG	CYS	A	278	22.657	37.764	-9.852	1.00	51.68	S
ATOM	2141	C	CYS	A	278	19.189	38.975	-10.514	1.00	22.32	C
ATOM	2142	O	CYS	A	278	19.360	39.303	-11.686	1.00	23.23	O
ATOM	2143	N	PHE	A	279	18.068	38.399	-10.087	1.00	18.03	N
ATOM	2144	CA	PHE	A	279	16.906	38.260	-10.956	1.00	19.54	C
ATOM	2145	CB	PHE	A	279	16.122	36.986	-10.604	1.00	16.66	C
ATOM	2146	CG	PHE	A	279	16.669	35.711	-11.217	1.00	18.32	C
ATOM	2147	CD1	PHE	A	279	15.979	34.512	-11.035	1.00	16.29	C
ATOM	2148	CE1	PHE	A	279	16.445	33.320	-11.585	1.00	20.37	C
ATOM	2149	CZ	PHE	A	279	17.618	33.316	-12.343	1.00	20.84	C
ATOM	2150	CE2	PHE	A	279	18.323	34.502	-12.536	1.00	21.46	C
ATOM	2151	CD2	PHE	A	279	17.843	35.697	-11.977	1.00	20.00	C
ATOM	2152	C	PHE	A	279	15.997	39.487	-10.808	1.00	18.03	C
ATOM	2153	O	PHE	A	279	16.214	40.337	-9.935	1.00	19.64	O
ATOM	2154	N	ASN	A	280	14.970	39.567	-11.647	1.00	16.97	N
ATOM	2155	CA	ASN	A	280	14.077	40.721	-11.673	1.00	17.94	C
ATOM	2156	CB	ASN	A	280	14.399	41.605	-12.895	1.00	18.63	C
ATOM	2157	CG	ASN	A	280	13.993	43.070	-12.695	1.00	23.74	C
ATOM	2158	OD1	ASN	A	280	13.755	43.516	-11.576	1.00	23.83	O
ATOM	2159	ND2	ASN	A	280	13.915	43.819	-13.792	1.00	23.81	N
ATOM	2160	C	ASN	A	280	12.600	40.316	-11.655	1.00	17.84	C
ATOM	2161	O	ASN	A	280	11.759	40.973	-12.272	1.00	20.01	O
ATOM	2162	N	LEU	A	281	12.286	39.229	-10.947	1.00	15.89	N
ATOM	2163	CA	LEU	A	281	10.898	38.776	-10.834	1.00	18.39	C
ATOM	2164	CB	LEU	A	281	10.834	37.301	-10.409	1.00	18.59	C
ATOM	2165	CG	LEU	A	281	11.469	36.224	-11.292	1.00	21.18	C
ATOM	2166	CD1	LEU	A	281	11.195	34.839	-10.691	1.00	22.17	C
ATOM	2167	CD2	LEU	A	281	10.953	36.311	-12.723	1.00	23.67	C
ATOM	2168	C	LEU	A	281	10.113	39.592	-9.818	1.00	17.32	C
ATOM	2169	O	LEU	A	281	10.660	40.000	-8.792	1.00	20.69	O
ATOM	2170	N	THR	A	282	8.827	39.793	-10.092	1.00	18.66	N
ATOM	2171	CA	THR	A	282	7.921	40.344	-9.089	1.00	19.21	C
ATOM	2172	CB	THR	A	282	6.800	41.207	-9.726	1.00	19.92	C
ATOM	2173	OG1	THR	A	282	5.901	40.376	-10.478	1.00	20.49	O
ATOM	2174	CG2	THR	A	282	7.371	42.186	-10.752	1.00	23.25	C
ATOM	2175	C	THR	A	282	7.307	39.214	-8.278	1.00	18.64	C
ATOM	2176	O	THR	A	282	7.497	38.038	-8.587	1.00	17.52	O
ATOM	2177	N	VAL	A	283	6.576	39.584	-7.233	1.00	19.80	N
ATOM	2178	CA	VAL	A	283	5.849	38.619	-6.429	1.00	20.55	C
ATOM	2179	CB	VAL	A	283	5.254	39.292	-5.171	1.00	22.86	C
ATOM	2180	CG1	VAL	A	283	4.207	38.407	-4.511	1.00	24.37	C
ATOM	2181	CG2	VAL	A	283	6.385	39.616	-4.182	1.00	20.76	C
ATOM	2182	C	VAL	A	283	4.799	37.891	-7.276	1.00	21.86	C
ATOM	2183	O	VAL	A	283	4.641	36.681	-7.149	1.00	18.51	O
ATOM	2184	N	LYS	A	284	4.106	38.622	-8.152	1.00	20.33	N
ATOM	2185	CA	LYS	A	284	3.137	38.014	-9.073	1.00	22.74	C
ATOM	2186	CB	LYS	A	284	2.383	39.087	-9.868	1.00	27.52	C
ATOM	2187	CG	LYS	A	284	1.128	39.606	-9.193	1.00	36.73	C
ATOM	2188	CD	LYS	A	284	0.296	40.458	-10.152	1.00	41.16	C
ATOM	2189	CE	LYS	A	284	-0.088	41.800	-9.529	1.00	46.57	C

ATOM	2190	NZ	LYS	A	284	-0.683	42.752	-10.524	1.00	46.00	N
ATOM	2191	C	LYS	A	284	3.788	37.022	-10.040	1.00	20.71	C
ATOM	2192	O	LYS	A	284	3.226	35.963	-10.314	1.00	22.30	O
ATOM	2193	N	GLY	A	285	4.965	37.372	-10.559	1.00	19.78	N
ATOM	2194	CA	GLY	A	285	5.691	36.497	-11.467	1.00	20.86	C
ATOM	2195	C	GLY	A	285	6.170	35.243	-10.763	1.00	23.10	C
ATOM	2196	O	GLY	A	285	6.082	34.130	-11.293	1.00	22.87	O
ATOM	2197	N	HIS	A	286	6.684	35.435	-9.554	1.00	19.16	N
ATOM	2198	CA	HIS	A	286	7.119	34.338	-8.703	1.00	20.45	C
ATOM	2199	CB	HIS	A	286	7.712	34.903	-7.409	1.00	19.10	C
ATOM	2200	CG	HIS	A	286	8.626	33.960	-6.697	1.00	17.27	C
ATOM	2201	ND1	HIS	A	286	8.178	33.077	-5.741	1.00	18.78	N
ATOM	2202	CE1	HIS	A	286	9.201	32.388	-5.267	1.00	16.80	C
ATOM	2203	NE2	HIS	A	286	10.299	32.798	-5.878	1.00	17.36	N
ATOM	2204	CD2	HIS	A	286	9.968	33.784	-6.775	1.00	15.55	C
ATOM	2205	C	HIS	A	286	5.960	33.399	-8.389	1.00	19.49	C
ATOM	2206	O	HIS	A	286	6.069	32.185	-8.573	1.00	22.26	O
ATOM	2207	N	ALA	A	287	4.849	33.981	-7.941	1.00	18.03	N
ATOM	2208	CA	ALA	A	287	3.661	33.238	-7.549	1.00	18.07	C
ATOM	2209	CB	ALA	A	287	2.680	34.161	-6.859	1.00	19.83	C
ATOM	2210	C	ALA	A	287	2.969	32.512	-8.699	1.00	21.64	C
ATOM	2211	O	ALA	A	287	2.258	31.531	-8.469	1.00	22.98	O
ATOM	2212	N	LYS	A	288	3.165	33.002	-9.922	1.00	21.97	N
ATOM	2213	CA	LYS	A	288	2.655	32.341	-11.121	1.00	25.80	C
ATOM	2214	CB	LYS	A	288	3.095	33.097	-12.379	1.00	31.30	C
ATOM	2215	CG	LYS	A	288	2.294	32.757	-13.637	1.00	39.56	C
ATOM	2216	CD	LYS	A	288	2.345	33.889	-14.656	1.00	47.76	C
ATOM	2217	CE	LYS	A	288	3.545	33.758	-15.598	1.00	52.05	C
ATOM	2218	NZ	LYS	A	288	4.545	34.862	-15.407	1.00	50.53	N
ATOM	2219	C	LYS	A	288	3.120	30.885	-11.186	1.00	25.80	C
ATOM	2220	O	LYS	A	288	2.371	30.012	-11.638	1.00	21.58	O
ATOM	2221	N	CYS	A	289	4.352	30.630	-10.731	1.00	21.02	N
ATOM	2222	CA	CYS	A	289	4.890	29.270	-10.666	1.00	21.57	C
ATOM	2223	CB	CYS	A	289	6.331	29.277	-10.169	1.00	22.62	C
ATOM	2224	SG	CYS	A	289	7.416	30.243	-11.219	1.00	25.70	S
ATOM	2225	C	CYS	A	289	4.051	28.385	-9.764	1.00	22.17	C
ATOM	2226	O	CYS	A	289	3.772	27.241	-10.102	1.00	18.49	O
ATOM	2227	N	VAL	A	290	3.657	28.924	-8.614	1.00	20.65	N
ATOM	2228	CA	VAL	A	290	2.820	28.201	-7.663	1.00	22.50	C
ATOM	2229	CB	VAL	A	290	2.630	29.005	-6.353	1.00	19.70	C
ATOM	2230	CG1	VAL	A	290	1.704	28.266	-5.404	1.00	20.56	C
ATOM	2231	CG2	VAL	A	290	3.981	29.271	-5.694	1.00	22.63	C
ATOM	2232	C	VAL	A	290	1.462	27.897	-8.290	1.00	23.73	C
ATOM	2233	O	VAL	A	290	0.970	26.767	-8.205	1.00	22.30	O
ATOM	2234	N	GLU	A	291	0.868	28.911	-8.918	1.00	21.47	N
ATOM	2235	CA	GLU	A	291	-0.396	28.752	-9.640	1.00	25.72	C
ATOM	2236	CB	GLU	A	291	-0.772	30.061	-10.337	1.00	34.02	C
ATOM	2237	CG	GLU	A	291	-2.262	30.246	-10.575	1.00	45.25	C
ATOM	2238	CD	GLU	A	291	-2.637	31.699	-10.814	1.00	52.35	C
ATOM	2239	OE1	GLU	A	291	-3.563	31.949	-11.614	1.00	56.56	O
ATOM	2240	OE2	GLU	A	291	-2.009	32.596	-10.204	1.00	56.25	O
ATOM	2241	C	GLU	A	291	-0.319	27.624	-10.675	1.00	23.85	C
ATOM	2242	O	GLU	A	291	-1.213	26.784	-10.749	1.00	23.65	O
ATOM	2243	N	VAL	A	292	0.763	27.603	-11.452	1.00	20.68	N
ATOM	2244	CA	VAL	A	292	0.961	26.590	-12.489	1.00	20.98	C
ATOM	2245	CB	VAL	A	292	2.228	26.888	-13.338	1.00	21.90	C
ATOM	2246	CG1	VAL	A	292	2.685	25.650	-14.119	1.00	23.43	C
ATOM	2247	CG2	VAL	A	292	1.965	28.052	-14.288	1.00	24.95	C
ATOM	2248	C	VAL	A	292	1.018	25.174	-11.898	1.00	21.34	C
ATOM	2249	O	VAL	A	292	0.305	24.274	-12.351	1.00	23.32	O
ATOM	2250	N	VAL	A	293	1.849	24.986	-10.879	1.00	17.97	N
ATOM	2251	CA	VAL	A	293	2.000	23.668	-10.248	1.00	21.44	C
ATOM	2252	CB	VAL	A	293	3.146	23.658	-9.222	1.00	17.29	C

ATOM	2253	CG1	VAL	A	293	3.251	22.296	-8.524	1.00	21.43	C
ATOM	2254	CG2	VAL	A	293	4.469	24.016	-9.906	1.00	21.04	C
ATOM	2255	C	VAL	A	293	0.689	23.214	-9.607	1.00	22.90	C
ATOM	2256	O	VAL	A	293	0.325	22.035	-9.677	1.00	22.65	O
ATOM	2257	N	LYS	A	294	-0.024	24.164	-9.007	1.00	24.39	N
ATOM	2258	CA	LYS	A	294	-1.322	23.907	-8.384	1.00	28.31	C
ATOM	2259	CB	LYS	A	294	-1.910	25.215	-7.854	1.00	32.06	C
ATOM	2260	CG	LYS	A	294	-2.169	25.216	-6.375	1.00	38.62	C
ATOM	2261	CD	LYS	A	294	-2.730	26.553	-5.931	1.00	38.29	C
ATOM	2262	CE	LYS	A	294	-4.230	26.475	-5.717	1.00	38.96	C
ATOM	2263	NZ	LYS	A	294	-4.933	27.428	-6.612	1.00	44.27	N
ATOM	2264	C	LYS	A	294	-2.341	23.258	-9.319	1.00	28.09	C
ATOM	2265	O	LYS	A	294	-3.114	22.394	-8.891	1.00	27.27	O
ATOM	2266	N	THR	A	295	-2.352	23.679	-10.584	1.00	26.99	N
ATOM	2267	CA	THR	A	295	-3.386	23.241	-11.526	1.00	29.22	C
ATOM	2268	CB	THR	A	295	-3.355	24.053	-12.849	1.00	31.61	C
ATOM	2269	OG1	THR	A	295	-2.082	23.897	-13.491	1.00	34.70	O
ATOM	2270	CG2	THR	A	295	-3.453	25.544	-12.573	1.00	33.92	C
ATOM	2271	C	THR	A	295	-3.350	21.742	-11.828	1.00	29.22	C
ATOM	2272	O	THR	A	295	-4.350	21.181	-12.263	1.00	26.76	O
ATOM	2273	N	PHE	A	296	-2.212	21.097	-11.575	1.00	24.19	N
ATOM	2274	CA	PHE	A	296	-2.065	19.675	-11.864	1.00	25.40	C
ATOM	2275	CB	PHE	A	296	-0.589	19.311	-12.083	1.00	24.15	C
ATOM	2276	CG	PHE	A	296	-0.026	19.878	-13.349	1.00	25.84	C
ATOM	2277	CD1	PHE	A	296	-0.218	19.224	-14.566	1.00	28.23	C
ATOM	2278	CE1	PHE	A	296	0.284	19.759	-15.746	1.00	28.38	C
ATOM	2279	CZ	PHE	A	296	0.981	20.968	-15.716	1.00	28.63	C
ATOM	2280	CE2	PHE	A	296	1.165	21.631	-14.510	1.00	25.00	C
ATOM	2281	CD2	PHE	A	296	0.660	21.091	-13.338	1.00	25.04	C
ATOM	2282	C	PHE	A	296	-2.735	18.783	-10.819	1.00	23.20	C
ATOM	2283	O	PHE	A	296	-2.760	17.563	-10.971	1.00	25.82	O
ATOM	2284	N	ASN	A	297	-3.277	19.406	-9.772	1.00	25.09	N
ATOM	2285	CA	ASN	A	297	-4.079	18.729	-8.747	1.00	27.46	C
ATOM	2286	CB	BASN	A	297	-5.472	18.366	-9.295	0.35	26.30	C
ATOM	2287	CB	AASN	A	297	-5.458	18.324	-9.302	0.65	31.74	C
ATOM	2288	CG	BASN	A	297	-6.516	18.220	-8.199	0.35	25.49	C
ATOM	2289	CG	AASN	A	297	-6.301	19.514	-9.709	0.65	36.04	C
ATOM	2290	OD1BASN	A	297		-6.413	18.833	-7.136	0.35	27.01	O
ATOM	2291	OD1AASN	A	297		-6.630	20.371	-8.888	0.65	36.86	O
ATOM	2292	ND2BASN	A	297		-7.532	17.403	-8.457	0.35	25.03	N
ATOM	2293	ND2AASN	A	297		-6.668	19.565	-10.986	0.65	38.33	N
ATOM	2294	C	ASN	A	297	-3.382	17.507	-8.158	1.00	26.62	C
ATOM	2295	O	ASN	A	297	-3.969	16.426	-8.041	1.00	27.10	O
ATOM	2296	N	LEU	A	298	-2.108	17.679	-7.819	1.00	24.04	N
ATOM	2297	CA	LEU	A	298	-1.347	16.633	-7.149	1.00	21.55	C
ATOM	2298	CB	LEU	A	298	-0.031	16.365	-7.883	1.00	22.65	C
ATOM	2299	CG	LEU	A	298	-0.185	15.710	-9.257	1.00	27.56	C
ATOM	2300	CD1	LEU	A	298	1.133	15.741	-10.013	1.00	27.42	C
ATOM	2301	CD2	LEU	A	298	-0.728	14.271	-9.114	1.00	25.31	C
ATOM	2302	C	LEU	A	298	-1.061	17.071	-5.728	1.00	21.11	C
ATOM	2303	O	LEU	A	298	-0.990	18.276	-5.472	1.00	22.86	O
ATOM	2304	N	PRO	A	299	-0.910	16.111	-4.808	1.00	21.63	N
ATOM	2305	CA	PRO	A	299	-0.465	16.421	-3.443	1.00	22.31	C
ATOM	2306	CB	PRO	A	299	-0.137	15.049	-2.848	1.00	24.00	C
ATOM	2307	CG	PRO	A	299	-0.931	14.053	-3.657	1.00	26.20	C
ATOM	2308	CD	PRO	A	299	-1.166	14.671	-5.000	1.00	24.45	C
ATOM	2309	C	PRO	A	299	0.798	17.266	-3.544	1.00	21.00	C
ATOM	2310	O	PRO	A	299	1.714	16.888	-4.277	1.00	18.60	O
ATOM	2311	N	LEU	A	300	0.822	18.399	-2.848	1.00	17.58	N
ATOM	2312	CA	LEU	A	300	1.887	19.385	-3.026	1.00	17.59	C
ATOM	2313	CB	LEU	A	300	1.346	20.580	-3.816	1.00	18.61	C
ATOM	2314	CG	LEU	A	300	2.223	21.809	-4.072	1.00	21.05	C
ATOM	2315	CD1	LEU	A	300	3.544	21.456	-4.782	1.00	19.32	C

ATOM	2316	CD2	LEU	A	300	1.423	22.816	-4.887	1.00	23.02	C
ATOM	2317	C	LEU	A	300	2.466	19.849	-1.691	1.00	17.37	C
ATOM	2318	O	LEU	A	300	1.728	20.257	-0.794	1.00	18.03	O
ATOM	2319	N	LEU	A	301	3.788	19.786	-1.575	1.00	15.41	N
ATOM	2320	CA	LEU	A	301	4.491	20.330	-0.427	1.00	16.84	C
ATOM	2321	CB	LEU	A	301	5.476	19.298	0.134	1.00	18.57	C
ATOM	2322	CG	LEU	A	301	6.382	19.715	1.301	1.00	20.01	C
ATOM	2323	CD1	LEU	A	301	5.572	20.042	2.564	1.00	17.00	C
ATOM	2324	CD2	LEU	A	301	7.384	18.607	1.576	1.00	19.26	C
ATOM	2325	C	LEU	A	301	5.220	21.589	-0.882	1.00	17.23	C
ATOM	2326	O	LEU	A	301	6.066	21.531	-1.780	1.00	15.65	O
ATOM	2327	N	MET	A	302	4.859	22.722	-0.285	1.00	15.68	N
ATOM	2328	CA	MET	A	302	5.467	24.004	-0.621	1.00	18.04	C
ATOM	2329	CB	MET	A	302	4.389	25.058	-0.853	1.00	16.95	C
ATOM	2330	CG	MET	A	302	3.599	24.868	-2.124	1.00	24.30	C
ATOM	2331	SD	MET	A	302	2.172	25.964	-2.085	1.00	34.45	S
ATOM	2332	CE	MET	A	302	3.039	27.555	-2.079	1.00	18.28	C
ATOM	2333	C	MET	A	302	6.409	24.458	0.486	1.00	14.71	C
ATOM	2334	O	MET	A	302	6.025	24.556	1.657	1.00	16.36	O
ATOM	2335	N	LEU	A	303	7.650	24.735	0.109	1.00	15.14	N
ATOM	2336	CA	LEU	A	303	8.679	25.076	1.074	1.00	13.21	C
ATOM	2337	CB	LEU	A	303	9.758	23.983	1.122	1.00	13.92	C
ATOM	2338	CG	LEU	A	303	9.244	22.545	1.316	1.00	14.09	C
ATOM	2339	CD1	LEU	A	303	10.369	21.551	1.048	1.00	17.23	C
ATOM	2340	CD2	LEU	A	303	8.697	22.370	2.731	1.00	14.49	C
ATOM	2341	C	LEU	A	303	9.310	26.413	0.735	1.00	13.53	C
ATOM	2342	O	LEU	A	303	9.158	26.916	-0.381	1.00	15.22	O
ATOM	2343	N	GLY	A	304	10.002	26.985	1.715	1.00	14.89	N
ATOM	2344	CA	GLY	A	304	10.698	28.246	1.532	1.00	16.21	C
ATOM	2345	C	GLY	A	304	12.052	28.036	0.877	1.00	18.29	C
ATOM	2346	O	GLY	A	304	12.196	27.205	-0.024	1.00	19.36	O
ATOM	2347	N	GLY	A	305	13.045	28.795	1.328	1.00	19.16	N
ATOM	2348	CA	GLY	A	305	14.401	28.704	0.806	1.00	20.73	C
ATOM	2349	C	GLY	A	305	15.105	30.030	1.003	1.00	21.04	C
ATOM	2350	O	GLY	A	305	14.904	30.691	2.020	1.00	18.74	O
ATOM	2351	N	GLY	A	306	15.919	30.427	0.030	1.00	17.08	N
ATOM	2352	CA	GLY	A	306	16.608	31.708	0.096	1.00	18.20	C
ATOM	2353	C	GLY	A	306	15.658	32.897	0.071	1.00	19.52	C
ATOM	2354	O	GLY	A	306	14.465	32.758	-0.198	1.00	21.40	O
ATOM	2355	N	GLY	A	307	16.194	34.078	0.358	1.00	19.00	N
ATOM	2356	CA	GLY	A	307	15.407	35.292	0.355	1.00	15.92	C
ATOM	2357	C	GLY	A	307	16.006	36.220	1.392	1.00	16.42	C
ATOM	2358	O	GLY	A	307	15.967	35.918	2.589	1.00	15.69	O
ATOM	2359	N	TYR	A	308	16.568	37.335	0.931	1.00	17.62	N
ATOM	2360	CA	TYR	A	308	17.451	38.164	1.777	1.00	14.95	C
ATOM	2361	CB	TYR	A	308	18.922	37.973	1.351	1.00	19.46	C
ATOM	2362	CG	TYR	A	308	19.235	36.506	1.309	1.00	17.69	C
ATOM	2363	CD1	TYR	A	308	19.202	35.799	0.106	1.00	20.53	C
ATOM	2364	CE1	TYR	A	308	19.435	34.426	0.083	1.00	20.77	C
ATOM	2365	CZ	TYR	A	308	19.671	33.760	1.273	1.00	19.18	C
ATOM	2366	OH	TYR	A	308	19.894	32.404	1.288	1.00	19.96	O
ATOM	2367	CE2	TYR	A	308	19.685	34.441	2.473	1.00	21.66	C
ATOM	2368	CD2	TYR	A	308	19.460	35.802	2.484	1.00	17.80	C
ATOM	2369	C	TYR	A	308	17.057	39.636	1.862	1.00	20.28	C
ATOM	2370	O	TYR	A	308	17.656	40.405	2.610	1.00	19.45	O
ATOM	2371	N	THR	A	309	16.045	40.025	1.103	1.00	17.89	N
ATOM	2372	CA	THR	A	309	15.403	41.320	1.311	1.00	17.30	C
ATOM	2373	CB	THR	A	309	15.205	42.034	-0.026	1.00	17.32	C
ATOM	2374	OG1	THR	A	309	16.497	42.351	-0.560	1.00	19.88	O
ATOM	2375	CG2	THR	A	309	14.551	43.401	0.164	1.00	16.71	C
ATOM	2376	C	THR	A	309	14.097	40.969	2.000	1.00	16.23	C
ATOM	2377	O	THR	A	309	13.120	40.610	1.348	1.00	17.53	O
ATOM	2378	N	ILE	A	310	14.101	41.029	3.328	1.00	16.67	N

ATOM	2379	CA	ILE	A	310	13.076	40.306	4.082	1.00	15.50	C
ATOM	2380	CB	ILE	A	310	13.515	40.012	5.540	1.00	20.65	C
ATOM	2381	CG1	ILE	A	310	13.753	41.306	6.331	1.00	21.95	C
ATOM	2382	CD1	ILE	A	310	14.146	41.072	7.801	1.00	23.95	C
ATOM	2383	CG2	ILE	A	310	14.786	39.147	5.523	1.00	24.23	C
ATOM	2384	C	ILE	A	310	11.664	40.859	3.955	1.00	14.90	C
ATOM	2385	O	ILE	A	310	10.702	40.108	4.077	1.00	17.74	O
ATOM	2386	N	ARG	A	311	11.526	42.155	3.676	1.00	15.56	N
ATOM	2387	CA	ARG	A	311	10.202	42.692	3.373	1.00	15.31	C
ATOM	2388	CB	ARG	A	311	10.221	44.221	3.203	1.00	18.73	C
ATOM	2389	CG	ARG	A	311	11.045	44.729	2.025	1.00	19.66	C
ATOM	2390	CD	ARG	A	311	11.215	46.242	2.002	1.00	19.64	C
ATOM	2391	NE	ARG	A	311	11.984	46.663	0.834	1.00	24.45	N
ATOM	2392	CZ	ARG	A	311	13.308	46.759	0.803	1.00	26.23	C
ATOM	2393	NH1	ARG	A	311	13.915	47.139	-0.313	1.00	29.95	N
ATOM	2394	NH2	ARG	A	311	14.029	46.486	1.885	1.00	29.19	N
ATOM	2395	C	ARG	A	311	9.611	42.006	2.133	1.00	19.24	C
ATOM	2396	O	ARG	A	311	8.421	41.731	2.081	1.00	17.02	O
ATOM	2397	N	ASN	A	312	10.450	41.706	1.146	1.00	14.90	N
ATOM	2398	CA	ASN	A	312	9.938	41.084	-0.073	1.00	17.77	C
ATOM	2399	CB	ASN	A	312	10.857	41.381	-1.253	1.00	17.73	C
ATOM	2400	CG	ASN	A	312	10.862	42.860	-1.617	1.00	19.08	C
ATOM	2401	OD1	ASN	A	312	9.905	43.587	-1.328	1.00	20.36	O
ATOM	2402	ND2	ASN	A	312	11.936	43.310	-2.254	1.00	19.11	N
ATOM	2403	C	ASN	A	312	9.696	39.591	0.086	1.00	15.53	C
ATOM	2404	O	ASN	A	312	8.828	39.026	-0.588	1.00	15.71	O
ATOM	2405	N	VAL	A	313	10.470	38.964	0.972	1.00	16.92	N
ATOM	2406	CA	VAL	A	313	10.248	37.564	1.335	1.00	14.92	C
ATOM	2407	CB	VAL	A	313	11.336	37.047	2.302	1.00	16.71	C
ATOM	2408	CG1	VAL	A	313	11.073	35.606	2.697	1.00	20.63	C
ATOM	2409	CG2	VAL	A	313	12.715	37.165	1.683	1.00	15.17	C
ATOM	2410	C	VAL	A	313	8.858	37.424	1.958	1.00	15.55	C
ATOM	2411	O	VAL	A	313	8.058	36.575	1.546	1.00	15.59	O
ATOM	2412	N	ALA	A	314	8.569	38.281	2.937	1.00	14.21	N
ATOM	2413	CA	ALA	A	314	7.271	38.284	3.610	1.00	15.47	C
ATOM	2414	CB	ALA	A	314	7.252	39.358	4.718	1.00	12.66	C
ATOM	2415	C	ALA	A	314	6.107	38.475	2.629	1.00	16.75	C
ATOM	2416	O	ALA	A	314	5.104	37.764	2.700	1.00	14.92	O
ATOM	2417	N	ARG	A	315	6.254	39.422	1.706	1.00	13.66	N
ATOM	2418	CA	ARG	A	315	5.238	39.673	0.685	1.00	15.79	C
ATOM	2419	CB	ARG	A	315	5.667	40.828	-0.229	1.00	14.83	C
ATOM	2420	CG	ARG	A	315	5.695	42.207	0.414	1.00	14.92	C
ATOM	2421	CD	ARG	A	315	6.417	43.239	-0.433	1.00	18.36	C
ATOM	2422	NE	ARG	A	315	5.953	44.589	-0.125	1.00	19.80	N
ATOM	2423	CZ	ARG	A	315	6.741	45.603	0.198	1.00	22.16	C
ATOM	2424	NH1	ARG	A	315	6.199	46.786	0.478	1.00	20.79	N
ATOM	2425	NH2	ARG	A	315	8.062	45.449	0.249	1.00	19.49	N
ATOM	2426	C	ARG	A	315	5.034	38.444	-0.194	1.00	14.58	C
ATOM	2427	O	ARG	A	315	3.910	38.038	-0.463	1.00	16.44	O
ATOM	2428	N	CYS	A	316	6.145	37.883	-0.657	1.00	11.83	N
ATOM	2429	CA	CYS	A	316	6.122	36.771	-1.602	1.00	14.91	C
ATOM	2430	CB	CYS	A	316	7.554	36.426	-2.004	1.00	16.47	C
ATOM	2431	SG	CYS	A	316	7.689	35.273	-3.381	1.00	19.01	S
ATOM	2432	C	CYS	A	316	5.429	35.549	-1.005	1.00	15.14	C
ATOM	2433	O	CYS	A	316	4.530	34.969	-1.613	1.00	15.78	O
ATOM	2434	N	TRP	A	317	5.837	35.174	0.198	1.00	12.13	N
ATOM	2435	CA	TRP	A	317	5.305	33.964	0.814	1.00	12.79	C
ATOM	2436	CB	TRP	A	317	6.281	33.421	1.854	1.00	11.60	C
ATOM	2437	CG	TRP	A	317	7.532	32.867	1.228	1.00	15.48	C
ATOM	2438	CD1	TRP	A	317	7.714	32.524	-0.091	1.00	14.60	C
ATOM	2439	NE1	TRP	A	317	8.992	32.052	-0.286	1.00	15.24	N
ATOM	2440	CE2	TRP	A	317	9.659	32.075	0.912	1.00	14.69	C
ATOM	2441	CD2	TRP	A	317	8.768	32.584	1.885	1.00	15.39	C

ATOM	2442	CE3	TRP	A	317	9.220	32.700	3.210	1.00	15.90	C
ATOM	2443	CZ3	TRP	A	317	10.532	32.311	3.510	1.00	16.00	C
ATOM	2444	CH2	TRP	A	317	11.387	31.823	2.515	1.00	16.28	C
ATOM	2445	CZ2	TRP	A	317	10.973	31.696	1.216	1.00	15.73	C
ATOM	2446	C	TRP	A	317	3.885	34.150	1.352	1.00	18.05	C
ATOM	2447	O	TRP	A	317	3.109	33.196	1.397	1.00	14.92	O
ATOM	2448	N	THR	A	318	3.533	35.381	1.724	1.00	13.33	N
ATOM	2449	CA	THR	A	318	2.143	35.684	2.072	1.00	12.98	C
ATOM	2450	CB	THR	A	318	2.029	37.117	2.632	1.00	17.01	C
ATOM	2451	OG1	THR	A	318	2.661	37.171	3.918	1.00	16.66	O
ATOM	2452	CG2	THR	A	318	0.579	37.480	2.930	1.00	19.95	C
ATOM	2453	C	THR	A	318	1.242	35.506	0.840	1.00	14.23	C
ATOM	2454	O	THR	A	318	0.195	34.850	0.904	1.00	16.36	O
ATOM	2455	N	TYR	A	319	1.661	36.088	-0.277	1.00	15.42	N
ATOM	2456	CA	TYR	A	319	0.881	36.009	-1.507	1.00	17.96	C
ATOM	2457	CB	TYR	A	319	1.456	36.921	-2.582	1.00	16.59	C
ATOM	2458	CG	TYR	A	319	0.561	37.044	-3.793	1.00	19.29	C
ATOM	2459	CD1	TYR	A	319	-0.731	37.564	-3.683	1.00	21.38	C
ATOM	2460	CE1	TYR	A	319	-1.565	37.667	-4.799	1.00	25.09	C
ATOM	2461	CZ	TYR	A	319	-1.103	37.239	-6.028	1.00	26.19	C
ATOM	2462	OH	TYR	A	319	-1.914	37.338	-7.136	1.00	29.55	O
ATOM	2463	CE2	TYR	A	319	0.172	36.716	-6.158	1.00	24.01	C
ATOM	2464	CD2	TYR	A	319	0.993	36.614	-5.044	1.00	20.66	C
ATOM	2465	C	TYR	A	319	0.784	34.567	-2.006	1.00	18.47	C
ATOM	2466	O	TYR	A	319	-0.275	34.129	-2.444	1.00	17.21	O
ATOM	2467	N	GLU	A	320	1.875	33.820	-1.884	1.00	18.09	N
ATOM	2468	CA	GLU	A	320	1.882	32.423	-2.328	1.00	17.91	C
ATOM	2469	CB	GLU	A	320	3.321	31.917	-2.503	1.00	16.67	C
ATOM	2470	CG	GLU	A	320	3.909	32.618	-3.718	1.00	16.41	C
ATOM	2471	CD	GLU	A	320	5.366	32.358	-4.008	1.00	20.32	C
ATOM	2472	OE1	GLU	A	320	6.125	31.939	-3.116	1.00	21.09	O
ATOM	2473	OE2	GLU	A	320	5.746	32.613	-5.168	1.00	23.67	O
ATOM	2474	C	GLU	A	320	1.009	31.518	-1.462	1.00	17.98	C
ATOM	2475	O	GLU	A	320	0.423	30.553	-1.958	1.00	16.96	O
ATOM	2476	N	THR	A	321	0.896	31.853	-0.182	1.00	15.23	N
ATOM	2477	CA	THR	A	321	-0.067	31.200	0.697	1.00	18.07	C
ATOM	2478	CB	THR	A	321	0.129	31.672	2.144	1.00	19.69	C
ATOM	2479	OG1	THR	A	321	1.483	31.429	2.551	1.00	20.60	O
ATOM	2480	CG2	THR	A	321	-0.696	30.820	3.097	1.00	17.93	C
ATOM	2481	C	THR	A	321	-1.502	31.497	0.225	1.00	18.74	C
ATOM	2482	O	THR	A	321	-2.335	30.587	0.103	1.00	18.53	O
ATOM	2483	N	ALA	A	322	-1.776	32.770	-0.044	1.00	15.67	N
ATOM	2484	CA	ALA	A	322	-3.073	33.188	-0.577	1.00	17.52	C
ATOM	2485	CB	ALA	A	322	-3.133	34.706	-0.693	1.00	18.65	C
ATOM	2486	C	ALA	A	322	-3.388	32.510	-1.923	1.00	18.13	C
ATOM	2487	O	ALA	A	322	-4.531	32.122	-2.171	1.00	22.33	O
ATOM	2488	N	VAL	A	323	-2.368	32.354	-2.769	1.00	17.72	N
ATOM	2489	CA	VAL	A	323	-2.489	31.607	-4.031	1.00	21.30	C
ATOM	2490	CB	VAL	A	323	-1.199	31.713	-4.903	1.00	19.86	C
ATOM	2491	CG1	VAL	A	323	-1.216	30.708	-6.060	1.00	19.69	C
ATOM	2492	CG2	VAL	A	323	-1.039	33.134	-5.448	1.00	20.19	C
ATOM	2493	C	VAL	A	323	-2.869	30.143	-3.774	1.00	19.47	C
ATOM	2494	O	VAL	A	323	-3.774	29.610	-4.426	1.00	20.19	O
ATOM	2495	N	ALA	A	324	-2.203	29.511	-2.809	1.00	16.79	N
ATOM	2496	CA	ALA	A	324	-2.512	28.133	-2.428	1.00	21.38	C
ATOM	2497	CB	ALA	A	324	-1.594	27.670	-1.312	1.00	21.34	C
ATOM	2498	C	ALA	A	324	-3.973	27.992	-1.996	1.00	22.64	C
ATOM	2499	O	ALA	A	324	-4.610	26.971	-2.258	1.00	22.66	O
ATOM	2500	N	LEU	A	325	-4.488	29.030	-1.342	1.00	20.95	N
ATOM	2501	CA	LEU	A	325	-5.848	29.037	-0.809	1.00	22.35	C
ATOM	2502	CB	LEU	A	325	-5.906	29.903	0.459	1.00	20.30	C
ATOM	2503	CG	LEU	A	325	-5.173	29.415	1.712	1.00	21.72	C
ATOM	2504	CD1	LEU	A	325	-4.975	30.571	2.686	1.00	22.94	C

ATOM	2505	CD2	LEU	A	325	-5.938	28.273	2.371	1.00	27.72	C
ATOM	2506	C	LEU	A	325	-6.885	29.543	-1.811	1.00	25.97	C
ATOM	2507	O	LEU	A	325	-8.085	29.527	-1.518	1.00	27.53	O
ATOM	2508	N	ASP	A	326	-6.415	29.984	-2.979	1.00	25.12	N
ATOM	2509	CA	ASP	A	326	-7.236	30.658	-3.996	1.00	27.86	C
ATOM	2510	CB	ASP	A	326	-8.202	29.677	-4.661	1.00	30.06	C
ATOM	2511	CG	ASP	A	326	-7.508	28.767	-5.633	1.00	30.53	C
ATOM	2512	OD1	ASP	A	326	-7.379	27.562	-5.333	1.00	32.21	O
ATOM	2513	OD2	ASP	A	326	-7.041	29.175	-6.716	1.00	36.90	O
ATOM	2514	C	ASP	A	326	-7.990	31.848	-3.417	1.00	31.17	C
ATOM	2515	O	ASP	A	326	-9.166	32.072	-3.722	1.00	30.83	O
ATOM	2516	N	CYS	A	327	-7.295	32.607	-2.578	1.00	29.52	N
ATOM	2517	CA	CYS	A	327	-7.897	33.718	-1.861	1.00	32.25	C
ATOM	2518	CB	CYS	A	327	-7.704	33.526	-0.350	1.00	35.59	C
ATOM	2519	SG	CYS	A	327	-8.381	34.836	0.688	1.00	44.40	S
ATOM	2520	C	CYS	A	327	-7.276	35.020	-2.348	1.00	36.43	C
ATOM	2521	O	CYS	A	327	-6.069	35.247	-2.194	1.00	34.18	O
ATOM	2522	N	GLU	A	328	-8.101	35.856	-2.976	1.00	34.43	N
ATOM	2523	CA	GLU	A	328	-7.666	37.170	-3.421	1.00	38.24	C
ATOM	2524	CB	GLU	A	328	-8.703	37.799	-4.354	1.00	46.35	C
ATOM	2525	CG	GLU	A	328	-8.635	37.326	-5.796	1.00	55.57	C
ATOM	2526	CD	GLU	A	328	-9.974	37.436	-6.508	1.00	61.43	C
ATOM	2527	OE1	GLU	A	328	-10.386	38.570	-6.844	1.00	62.00	O
ATOM	2528	OE2	GLU	A	328	-10.616	36.387	-6.732	1.00	64.79	O
ATOM	2529	C	GLU	A	328	-7.483	38.048	-2.192	1.00	36.90	C
ATOM	2530	O	GLU	A	328	-8.394	38.164	-1.365	1.00	34.82	O
ATOM	2531	N	ILE	A	329	-6.301	38.639	-2.055	1.00	29.58	N
ATOM	2532	CA	ILE	A	329	-6.047	39.575	-0.963	1.00	28.65	C
ATOM	2533	CB	ILE	A	329	-4.948	39.046	0.010	1.00	24.52	C
ATOM	2534	CG1	ILE	A	329	-3.641	38.714	-0.725	1.00	22.15	C
ATOM	2535	CD1	ILE	A	329	-2.472	38.398	0.224	1.00	21.80	C
ATOM	2536	CG2	ILE	A	329	-5.486	37.855	0.815	1.00	28.06	C
ATOM	2537	C	ILE	A	329	-5.707	40.960	-1.508	1.00	24.70	C
ATOM	2538	O	ILE	A	329	-5.108	41.064	-2.582	1.00	26.56	O
ATOM	2539	N	PRO	A	330	-6.104	42.017	-0.789	1.00	26.09	N
ATOM	2540	CA	PRO	A	330	-5.852	43.394	-1.241	1.00	24.62	C
ATOM	2541	CB	PRO	A	330	-6.513	44.276	-0.162	1.00	24.43	C
ATOM	2542	CG	PRO	A	330	-7.058	43.384	0.873	1.00	26.00	C
ATOM	2543	CD	PRO	A	330	-6.846	41.967	0.484	1.00	24.77	C
ATOM	2544	C	PRO	A	330	-4.368	43.733	-1.344	1.00	26.85	C
ATOM	2545	O	PRO	A	330	-3.545	43.201	-0.595	1.00	24.09	O
ATOM	2546	N	ASN	A	331	-4.044	44.621	-2.275	1.00	22.23	N
ATOM	2547	CA	ASN	A	331	-2.678	45.100	-2.444	1.00	24.07	C
ATOM	2548	CB	ASN	A	331	-2.532	45.859	-3.765	1.00	22.95	C
ATOM	2549	CG	ASN	A	331	-1.079	46.141	-4.126	1.00	25.02	C
ATOM	2550	OD1	ASN	A	331	-0.182	45.333	-3.858	1.00	23.98	O
ATOM	2551	ND2	ASN	A	331	-0.841	47.292	-4.741	1.00	27.18	N
ATOM	2552	C	ASN	A	331	-2.258	45.980	-1.273	1.00	23.16	C
ATOM	2553	O	ASN	A	331	-1.094	45.995	-0.892	1.00	22.84	O
ATOM	2554	N	GLU	A	332	-3.216	46.701	-0.695	1.00	24.58	N
ATOM	2555	CA	GLU	A	332	-2.941	47.540	0.471	1.00	24.60	C
ATOM	2556	CB	GLU	A	332	-4.137	48.461	0.756	1.00	30.07	C
ATOM	2557	CG	GLU	A	332	-4.028	49.278	2.039	1.00	40.95	C
ATOM	2558	CD	GLU	A	332	-3.246	50.576	1.872	1.00	47.94	C
ATOM	2559	OE1	GLU	A	332	-2.804	50.888	0.740	1.00	51.17	O
ATOM	2560	OE2	GLU	A	332	-3.074	51.293	2.884	1.00	47.40	O
ATOM	2561	C	GLU	A	332	-2.646	46.629	1.662	1.00	20.10	C
ATOM	2562	O	GLU	A	332	-3.490	45.817	2.042	1.00	18.10	O
ATOM	2563	N	LEU	A	333	-1.443	46.741	2.230	1.00	19.40	N
ATOM	2564	CA	LEU	A	333	-1.069	45.895	3.374	1.00	20.17	C
ATOM	2565	CB	LEU	A	333	0.418	46.020	3.705	1.00	20.71	C
ATOM	2566	CG	LEU	A	333	1.448	45.487	2.715	1.00	21.40	C
ATOM	2567	CD1	LEU	A	333	2.807	45.878	3.211	1.00	20.37	C

ATOM	2568	CD2	LEU	A	333	1.373	43.972	2.547	1.00	18.52	C
ATOM	2569	C	LEU	A	333	-1.875	46.233	4.621	1.00	21.83	C
ATOM	2570	O	LEU	A	333	-2.099	47.414	4.913	1.00	18.82	O
ATOM	2571	N	PRO	A	334	-2.313	45.213	5.361	1.00	22.61	N
ATOM	2572	CA	PRO	A	334	-2.968	45.459	6.644	1.00	20.85	C
ATOM	2573	CB	PRO	A	334	-3.535	44.089	7.021	1.00	22.66	C
ATOM	2574	CG	PRO	A	334	-2.587	43.109	6.374	1.00	23.31	C
ATOM	2575	CD	PRO	A	334	-2.209	43.771	5.062	1.00	20.74	C
ATOM	2576	C	PRO	A	334	-1.907	45.875	7.645	1.00	18.84	C
ATOM	2577	O	PRO	A	334	-0.738	45.535	7.470	1.00	17.25	O
ATOM	2578	N	TYR	A	335	-2.302	46.594	8.691	1.00	19.45	N
ATOM	2579	CA	TYR	A	335	-1.380	46.858	9.773	1.00	17.47	C
ATOM	2580	CB	TYR	A	335	-2.017	47.724	10.864	1.00	20.62	C
ATOM	2581	CG	TYR	A	335	-0.991	48.141	11.882	1.00	20.65	C
ATOM	2582	CD1	TYR	A	335	-0.922	47.517	13.120	1.00	22.70	C
ATOM	2583	CE1	TYR	A	335	0.049	47.873	14.049	1.00	25.15	C
ATOM	2584	CZ	TYR	A	335	0.969	48.852	13.733	1.00	23.26	C
ATOM	2585	OH	TYR	A	335	1.936	49.209	14.649	1.00	26.39	O
ATOM	2586	CE2	TYR	A	335	0.932	49.479	12.500	1.00	25.52	C
ATOM	2587	CD2	TYR	A	335	-0.040	49.113	11.577	1.00	20.57	C
ATOM	2588	C	TYR	A	335	-0.863	45.530	10.347	1.00	18.95	C
ATOM	2589	O	TYR	A	335	-1.585	44.535	10.387	1.00	19.32	O
ATOM	2590	N	ASN	A	336	0.401	45.517	10.745	1.00	18.97	N
ATOM	2591	CA	ASN	A	336	1.039	44.323	11.297	1.00	18.38	C
ATOM	2592	CB	ASN	A	336	1.473	43.369	10.163	1.00	17.29	C
ATOM	2593	CG	ASN	A	336	2.480	43.999	9.221	1.00	19.41	C
ATOM	2594	OD1	ASN	A	336	3.679	43.964	9.473	1.00	19.73	O
ATOM	2595	ND2	ASN	A	336	1.996	44.578	8.130	1.00	19.89	N
ATOM	2596	C	ASN	A	336	2.229	44.721	12.177	1.00	20.27	C
ATOM	2597	O	ASN	A	336	2.611	45.895	12.215	1.00	18.23	O
ATOM	2598	N	ASP	A	337	2.810	43.751	12.882	1.00	16.96	N
ATOM	2599	CA	ASP	A	337	3.905	44.018	13.826	1.00	20.61	C
ATOM	2600	CB	ASP	A	337	4.242	42.752	14.624	1.00	21.73	C
ATOM	2601	CG	ASP	A	337	3.253	42.482	15.740	1.00	30.64	C
ATOM	2602	OD1	ASP	A	337	2.347	43.314	15.965	1.00	30.84	O
ATOM	2603	OD2	ASP	A	337	3.309	41.459	16.452	1.00	35.21	O
ATOM	2604	C	ASP	A	337	5.180	44.548	13.168	1.00	19.90	C
ATOM	2605	O	ASP	A	337	6.077	45.047	13.849	1.00	19.36	O
ATOM	2606	N	TYR	A	338	5.253	44.434	11.846	1.00	19.12	N
ATOM	2607	CA	TYR	A	338	6.452	44.783	11.096	1.00	18.90	C
ATOM	2608	CB	TYR	A	338	7.070	43.512	10.497	1.00	20.47	C
ATOM	2609	CG	TYR	A	338	7.354	42.487	11.560	1.00	24.05	C
ATOM	2610	CD1	TYR	A	338	6.495	41.407	11.766	1.00	23.90	C
ATOM	2611	CE1	TYR	A	338	6.747	40.470	12.763	1.00	24.65	C
ATOM	2612	CZ	TYR	A	338	7.868	40.623	13.567	1.00	28.97	C
ATOM	2613	OH	TYR	A	338	8.143	39.712	14.557	1.00	31.47	O
ATOM	2614	CE2	TYR	A	338	8.720	41.697	13.391	1.00	31.27	C
ATOM	2615	CD2	TYR	A	338	8.463	42.619	12.390	1.00	28.08	C
ATOM	2616	C	TYR	A	338	6.140	45.797	10.007	1.00	17.36	C
ATOM	2617	O	TYR	A	338	6.884	45.916	9.034	1.00	18.26	O
ATOM	2618	N	PHE	A	339	5.051	46.543	10.201	1.00	15.77	N
ATOM	2619	CA	PHE	A	339	4.530	47.469	9.199	1.00	16.64	C
ATOM	2620	CB	PHE	A	339	3.370	48.291	9.786	1.00	18.97	C
ATOM	2621	CG	PHE	A	339	2.498	48.950	8.747	1.00	20.81	C
ATOM	2622	CD1	PHE	A	339	2.461	50.336	8.635	1.00	17.50	C
ATOM	2623	CE1	PHE	A	339	1.656	50.953	7.689	1.00	17.50	C
ATOM	2624	CZ	PHE	A	339	0.867	50.190	6.829	1.00	19.43	C
ATOM	2625	CE2	PHE	A	339	0.893	48.804	6.924	1.00	18.38	C
ATOM	2626	CD2	PHE	A	339	1.708	48.188	7.884	1.00	17.46	C
ATOM	2627	C	PHE	A	339	5.592	48.393	8.608	1.00	18.46	C
ATOM	2628	O	PHE	A	339	5.572	48.663	7.409	1.00	19.75	O
ATOM	2629	N	GLU	A	340	6.521	48.859	9.444	1.00	17.11	N
ATOM	2630	CA	GLU	A	340	7.569	49.793	9.013	1.00	20.80	C

ATOM	2631	CB	GLU	A	340	8.310	50.366	10.233	1.00	21.99	C
ATOM	2632	CG	GLU	A	340	9.292	49.410	10.905	1.00	24.24	C
ATOM	2633	CD	GLU	A	340	8.662	48.489	11.948	1.00	28.00	C
ATOM	2634	OE1	GLU	A	340	7.425	48.272	11.942	1.00	25.13	O
ATOM	2635	OE2	GLU	A	340	9.421	47.970	12.791	1.00	27.42	O
ATOM	2636	C	GLU	A	340	8.568	49.203	8.000	1.00	19.31	C
ATOM	2637	O	GLU	A	340	9.215	49.942	7.248	1.00	19.06	O
ATOM	2638	N	TYR	A	341	8.700	47.879	7.996	1.00	19.00	N
ATOM	2639	CA	TYR	A	341	9.561	47.195	7.034	1.00	20.65	C
ATOM	2640	CB	TYR	A	341	9.691	45.707	7.390	1.00	21.48	C
ATOM	2641	CG	TYR	A	341	10.606	45.396	8.556	1.00	26.26	C
ATOM	2642	CD1	TYR	A	341	10.228	45.698	9.865	1.00	26.93	C
ATOM	2643	CE1	TYR	A	341	11.051	45.402	10.941	1.00	31.95	C
ATOM	2644	CZ	TYR	A	341	12.267	44.777	10.724	1.00	35.99	C
ATOM	2645	OH	TYR	A	341	13.073	44.492	11.806	1.00	40.28	O
ATOM	2646	CE2	TYR	A	341	12.669	44.449	9.436	1.00	35.69	C
ATOM	2647	CD2	TYR	A	341	11.833	44.754	8.357	1.00	32.67	C
ATOM	2648	C	TYR	A	341	9.038	47.333	5.600	1.00	18.89	C
ATOM	2649	O	TYR	A	341	9.794	47.169	4.649	1.00	18.54	O
ATOM	2650	N	PHE	A	342	7.752	47.645	5.449	1.00	17.23	N
ATOM	2651	CA	PHE	A	342	7.106	47.618	4.136	1.00	19.66	C
ATOM	2652	CB	PHE	A	342	5.754	46.916	4.219	1.00	18.65	C
ATOM	2653	CG	PHE	A	342	5.842	45.520	4.747	1.00	19.44	C
ATOM	2654	CD1	PHE	A	342	5.526	45.244	6.077	1.00	18.93	C
ATOM	2655	CE1	PHE	A	342	5.624	43.941	6.580	1.00	17.64	C
ATOM	2656	CZ	PHE	A	342	6.031	42.896	5.738	1.00	17.63	C
ATOM	2657	CE2	PHE	A	342	6.348	43.162	4.407	1.00	17.86	C
ATOM	2658	CD2	PHE	A	342	6.254	44.472	3.916	1.00	18.76	C
ATOM	2659	C	PHE	A	342	6.966	48.982	3.467	1.00	20.45	C
ATOM	2660	O	PHE	A	342	6.323	49.101	2.423	1.00	21.45	O
ATOM	2661	N	GLY	A	343	7.579	50.001	4.059	1.00	21.30	N
ATOM	2662	CA	GLY	A	343	7.641	51.313	3.434	1.00	21.86	C
ATOM	2663	C	GLY	A	343	8.605	51.309	2.255	1.00	22.99	C
ATOM	2664	O	GLY	A	343	9.386	50.367	2.111	1.00	23.25	O
ATOM	2665	N	PRO	A	344	8.584	52.354	1.428	1.00	24.95	N
ATOM	2666	CA	PRO	A	344	7.714	53.530	1.612	1.00	27.61	C
ATOM	2667	CB	PRO	A	344	8.443	54.613	0.809	1.00	28.17	C
ATOM	2668	CG	PRO	A	344	9.119	53.854	-0.304	1.00	28.28	C
ATOM	2669	CD	PRO	A	344	9.464	52.495	0.250	1.00	26.01	C
ATOM	2670	C	PRO	A	344	6.287	53.383	1.077	1.00	28.17	C
ATOM	2671	O	PRO	A	344	5.483	54.297	1.258	1.00	33.00	O
ATOM	2672	N	ASP	A	345	5.982	52.254	0.443	1.00	26.00	N
ATOM	2673	CA	ASP	A	345	4.713	52.072	-0.259	1.00	26.27	C
ATOM	2674	CB	ASP	A	345	4.953	51.280	-1.545	1.00	25.27	C
ATOM	2675	CG	ASP	A	345	5.642	49.965	-1.281	1.00	26.12	C
ATOM	2676	OD1	ASP	A	345	6.864	49.981	-1.020	1.00	27.45	O
ATOM	2677	OD2	ASP	A	345	5.028	48.876	-1.258	1.00	24.52	O
ATOM	2678	C	ASP	A	345	3.617	51.387	0.563	1.00	23.18	C
ATOM	2679	O	ASP	A	345	2.436	51.670	0.367	1.00	24.72	O
ATOM	2680	N	PHE	A	346	4.006	50.481	1.461	1.00	19.75	N
ATOM	2681	CA	PHE	A	346	3.063	49.669	2.248	1.00	19.35	C
ATOM	2682	CB	PHE	A	346	2.383	50.504	3.351	1.00	23.34	C
ATOM	2683	CG	PHE	A	346	3.351	51.338	4.143	1.00	20.31	C
ATOM	2684	CD1	PHE	A	346	3.528	52.687	3.851	1.00	22.21	C
ATOM	2685	CE1	PHE	A	346	4.452	53.458	4.564	1.00	21.26	C
ATOM	2686	CZ	PHE	A	346	5.202	52.881	5.575	1.00	20.06	C
ATOM	2687	CE2	PHE	A	346	5.045	51.528	5.870	1.00	19.62	C
ATOM	2688	CD2	PHE	A	346	4.125	50.764	5.150	1.00	19.13	C
ATOM	2689	C	PHE	A	346	2.052	48.914	1.380	1.00	20.13	C
ATOM	2690	O	PHE	A	346	0.876	48.755	1.745	1.00	18.78	O
ATOM	2691	N	LYS	A	347	2.540	48.438	0.233	1.00	17.85	N
ATOM	2692	CA	LYS	A	347	1.763	47.590	-0.665	1.00	19.19	C
ATOM	2693	CB	LYS	A	347	1.730	48.180	-2.083	1.00	23.26	C

ATOM	2694	CG	LYS	A	347	1.197	49.610	-2.171	1.00	29.07	C
ATOM	2695	CD	LYS	A	347	-0.320	49.652	-2.162	1.00	38.93	C
ATOM	2696	CE	LYS	A	347	-0.842	50.884	-2.895	1.00	42.65	C
ATOM	2697	NZ	LYS	A	347	-2.330	50.854	-3.022	1.00	46.69	N
ATOM	2698	C	LYS	A	347	2.335	46.176	-0.711	1.00	18.84	C
ATOM	2699	O	LYS	A	347	3.510	45.964	-0.409	1.00	21.54	O
ATOM	2700	N	LEU	A	348	1.499	45.218	-1.106	1.00	19.07	N
ATOM	2701	CA	LEU	A	348	1.900	43.811	-1.165	1.00	21.21	C
ATOM	2702	CB	LEU	A	348	0.665	42.903	-1.206	1.00	20.29	C
ATOM	2703	CG	LEU	A	348	0.926	41.391	-1.297	1.00	21.84	C
ATOM	2704	CD1	LEU	A	348	1.596	40.862	-0.025	1.00	20.89	C
ATOM	2705	CD2	LEU	A	348	-0.371	40.644	-1.580	1.00	20.79	C
ATOM	2706	C	LEU	A	348	2.785	43.524	-2.372	1.00	21.85	C
ATOM	2707	O	LEU	A	348	3.805	42.832	-2.271	1.00	21.12	O
ATOM	2708	N	HIS	A	349	2.384	44.045	-3.522	1.00	23.57	N
ATOM	2709	CA	HIS	A	349	3.105	43.764	-4.755	1.00	23.74	C
ATOM	2710	CB	HIS	A	349	2.127	43.723	-5.928	1.00	25.29	C
ATOM	2711	CG	HIS	A	349	1.179	42.575	-5.829	1.00	26.39	C
ATOM	2712	ND1	HIS	A	349	1.583	41.271	-6.021	1.00	28.08	N
ATOM	2713	CE1	HIS	A	349	0.556	40.463	-5.825	1.00	27.79	C
ATOM	2714	NE2	HIS	A	349	-0.492	41.194	-5.488	1.00	27.73	N
ATOM	2715	CD2	HIS	A	349	-0.124	42.518	-5.466	1.00	27.58	C
ATOM	2716	C	HIS	A	349	4.288	44.688	-4.974	1.00	26.46	C
ATOM	2717	O	HIS	A	349	4.323	45.798	-4.444	1.00	29.51	O
ATOM	2718	N	ILE	A	350	5.273	44.196	-5.722	1.00	23.31	N
ATOM	2719	CA	ILE	A	350	6.508	44.922	-5.970	1.00	23.76	C
ATOM	2720	CB	ILE	A	350	7.736	44.148	-5.397	1.00	24.59	C
ATOM	2721	CG1	ILE	A	350	7.981	42.833	-6.158	1.00	20.59	C
ATOM	2722	CD1	ILE	A	350	9.267	42.105	-5.731	1.00	25.42	C
ATOM	2723	CG2	ILE	A	350	7.568	43.896	-3.888	1.00	27.88	C
ATOM	2724	C	ILE	A	350	6.690	45.206	-7.459	1.00	24.16	C
ATOM	2725	O	ILE	A	350	6.159	44.492	-8.309	1.00	24.06	O
ATOM	2726	N	SER	A	351	7.441	46.257	-7.763	1.00	29.61	N
ATOM	2727	CA	SER	A	351	7.779	46.593	-9.141	1.00	32.20	C
ATOM	2728	CB	SER	A	351	7.793	48.114	-9.326	1.00	37.24	C
ATOM	2729	OG	SER	A	351	6.475	48.630	-9.344	1.00	42.67	O
ATOM	2730	C	SER	A	351	9.142	46.012	-9.491	1.00	28.67	C
ATOM	2731	O	SER	A	351	10.004	45.893	-8.617	1.00	29.69	O
ATOM	2732	N	PRO	A	352	9.344	45.643	-10.758	1.00	27.95	N
ATOM	2733	CA	PRO	A	352	10.670	45.223	-11.225	1.00	27.35	C
ATOM	2734	CB	PRO	A	352	10.426	44.741	-12.664	1.00	31.09	C
ATOM	2735	CG	PRO	A	352	8.973	44.897	-12.949	1.00	29.85	C
ATOM	2736	CD	PRO	A	352	8.327	45.608	-11.823	1.00	27.43	C
ATOM	2737	C	PRO	A	352	11.664	46.388	-11.237	1.00	31.80	C
ATOM	2738	O	PRO	A	352	11.252	47.551	-11.292	1.00	31.55	O
ATOM	2739	N	SER	A	353	12.953	46.071	-11.168	1.00	33.57	N
ATOM	2740	CA	SER	A	353	14.007	47.057	-11.383	1.00	39.63	C
ATOM	2741	CB	SER	A	353	15.340	46.548	-10.834	1.00	42.74	C
ATOM	2742	OG	SER	A	353	15.214	46.115	-9.490	1.00	52.90	O
ATOM	2743	C	SER	A	353	14.136	47.332	-12.879	1.00	40.03	C
ATOM	2744	O	SER	A	353	13.595	46.592	-13.704	1.00	39.35	O
ATOM	2745	N	ASN	A	354	14.855	48.395	-13.231	1.00	44.94	N
ATOM	2746	CA	ASN	A	354	15.108	48.703	-14.637	1.00	46.36	C
ATOM	2747	CB	ASN	A	354	15.158	50.223	-14.867	1.00	52.83	C
ATOM	2748	CG	ASN	A	354	16.472	50.852	-14.425	1.00	55.85	C
ATOM	2749	OD1	ASN	A	354	17.050	51.663	-15.148	1.00	61.44	O
ATOM	2750	ND2	ASN	A	354	16.942	50.496	-13.232	1.00	57.99	N
ATOM	2751	C	ASN	A	354	16.359	47.993	-15.174	1.00	45.20	C
ATOM	2752	O	ASN	A	354	16.826	48.289	-16.280	1.00	46.54	O
ATOM	2753	N	MET	A	355	16.882	47.054	-14.382	1.00	38.35	N
ATOM	2754	CA	MET	A	355	18.056	46.258	-14.744	1.00	33.94	C
ATOM	2755	CB	MET	A	355	18.421	45.287	-13.613	1.00	36.48	C
ATOM	2756	CG	MET	A	355	17.620	43.980	-13.600	1.00	34.52	C

ATOM	2757	SD	MET A 355	18.043	42.858	-12.243	1.00	33.88	S
ATOM	2758	CE	MET A 355	19.753	42.482	-12.614	1.00	32.61	C
ATOM	2759	C	MET A 355	17.861	45.500	-16.054	1.00	31.33	C
ATOM	2760	O	MET A 355	16.748	45.089	-16.394	1.00	31.45	O
ATOM	2761	N	THR A 356	18.953	45.313	-16.784	1.00	30.09	N
ATOM	2762	CA	THR A 356	18.880	44.665	-18.085	1.00	32.93	C
ATOM	2763	CB	THR A 356	20.135	44.966	-18.931	1.00	36.71	C
ATOM	2764	OG1	THR A 356	21.284	44.379	-18.311	1.00	45.58	O
ATOM	2765	CG2	THR A 356	20.453	46.459	-18.913	1.00	35.37	C
ATOM	2766	C	THR A 356	18.688	43.163	-17.925	1.00	27.66	C
ATOM	2767	O	THR A 356	19.286	42.538	-17.049	1.00	29.92	O
ATOM	2768	N	ASN A 357	17.827	42.608	-18.764	1.00	25.97	N
ATOM	2769	CA	ASN A 357	17.646	41.171	-18.843	1.00	28.31	C
ATOM	2770	CB	ASN A 357	16.223	40.848	-19.293	1.00	26.07	C
ATOM	2771	CG	ASN A 357	15.923	39.362	-19.260	1.00	25.50	C
ATOM	2772	OD1	ASN A 357	16.752	38.550	-18.839	1.00	25.35	O
ATOM	2773	ND2	ASN A 357	14.731	38.998	-19.697	1.00	25.56	N
ATOM	2774	C	ASN A 357	18.667	40.550	-19.795	1.00	30.76	C
ATOM	2775	O	ASN A 357	18.570	40.718	-21.012	1.00	31.12	O
ATOM	2776	N	GLN A 358	19.640	39.837	-19.226	1.00	28.37	N
ATOM	2777	CA	GLN A 358	20.686	39.161	-20.001	1.00	28.86	C
ATOM	2778	CB	GLN A 358	21.885	38.829	-19.107	1.00	32.14	C
ATOM	2779	CG	GLN A 358	22.643	40.048	-18.606	1.00	41.84	C
ATOM	2780	CD	GLN A 358	23.755	40.467	-19.551	1.00	46.63	C
ATOM	2781	OE1	GLN A 358	24.935	40.291	-19.242	1.00	52.74	O
ATOM	2782	NE2	GLN A 358	23.385	41.015	-20.703	1.00	45.33	N
ATOM	2783	C	GLN A 358	20.193	37.903	-20.724	1.00	26.56	C
ATOM	2784	O	GLN A 358	20.892	37.363	-21.591	1.00	28.17	O
ATOM	2785	N	ASN A 359	18.992	37.450	-20.366	1.00	22.56	N
ATOM	2786	CA	ASN A 359	18.337	36.319	-21.018	1.00	25.42	C
ATOM	2787	CB	ASN A 359	17.416	35.586	-20.044	1.00	21.45	C
ATOM	2788	CG	ASN A 359	18.102	35.248	-18.753	1.00	24.75	C
ATOM	2789	OD1	ASN A 359	18.064	36.024	-17.798	1.00	23.96	O
ATOM	2790	ND2	ASN A 359	18.761	34.101	-18.722	1.00	20.30	N
ATOM	2791	C	ASN A 359	17.515	36.757	-22.218	1.00	27.85	C
ATOM	2792	O	ASN A 359	16.381	37.220	-22.067	1.00	31.99	O
ATOM	2793	N	THR A 360	18.072	36.596	-23.410	1.00	19.23	N
ATOM	2794	CA	THR A 360	17.335	36.941	-24.620	1.00	20.22	C
ATOM	2795	CB	THR A 360	18.252	36.913	-25.858	1.00	21.73	C
ATOM	2796	OG1	THR A 360	18.693	35.568	-26.086	1.00	18.55	O
ATOM	2797	CG2	THR A 360	19.550	37.695	-25.601	1.00	23.09	C
ATOM	2798	C	THR A 360	16.197	35.931	-24.782	1.00	17.88	C
ATOM	2799	O	THR A 360	16.295	34.811	-24.288	1.00	17.25	O
ATOM	2800	N	PRO A 361	15.115	36.324	-25.446	1.00	20.23	N
ATOM	2801	CA	PRO A 361	14.045	35.377	-25.782	1.00	20.50	C
ATOM	2802	CB	PRO A 361	13.116	36.209	-26.666	1.00	22.82	C
ATOM	2803	CG	PRO A 361	13.340	37.628	-26.197	1.00	21.88	C
ATOM	2804	CD	PRO A 361	14.806	37.698	-25.895	1.00	21.04	C
ATOM	2805	C	PRO A 361	14.580	34.151	-26.538	1.00	20.52	C
ATOM	2806	O	PRO A 361	14.125	33.030	-26.276	1.00	20.98	O
ATOM	2807	N	GLU A 362	15.552	34.355	-27.433	1.00	19.45	N
ATOM	2808	CA	GLU A 362	16.156	33.246	-28.184	1.00	22.31	C
ATOM	2809	CB	GLU A 362	17.120	33.770	-29.257	1.00	24.75	C
ATOM	2810	CG	GLU A 362	16.418	34.443	-30.423	1.00	29.42	C
ATOM	2811	CD	GLU A 362	16.063	35.898	-30.161	1.00	34.08	C
ATOM	2812	OE1	GLU A 362	16.583	36.501	-29.194	1.00	29.05	O
ATOM	2813	OE2	GLU A 362	15.249	36.442	-30.936	1.00	41.75	O
ATOM	2814	C	GLU A 362	16.888	32.267	-27.283	1.00	15.74	C
ATOM	2815	O	GLU A 362	16.793	31.053	-27.471	1.00	17.88	O
ATOM	2816	N	TYR A 363	17.641	32.801	-26.322	1.00	16.09	N
ATOM	2817	CA	TYR A 363	18.317	31.985	-25.321	1.00	17.78	C
ATOM	2818	CB	TYR A 363	19.116	32.883	-24.361	1.00	17.31	C
ATOM	2819	CG	TYR A 363	19.753	32.159	-23.199	1.00	17.40	C

ATOM	2820	CD1	TYR	A	363	19.051	31.967	-22.004	1.00	18.41	C
ATOM	2821	CE1	TYR	A	363	19.625	31.307	-20.933	1.00	18.41	C
ATOM	2822	CZ	TYR	A	363	20.922	30.826	-21.046	1.00	20.35	C
ATOM	2823	OH	TYR	A	363	21.499	30.168	-19.986	1.00	19.63	O
ATOM	2824	CE2	TYR	A	363	21.645	31.008	-22.217	1.00	19.48	C
ATOM	2825	CD2	TYR	A	363	21.059	31.671	-23.287	1.00	18.21	C
ATOM	2826	C	TYR	A	363	17.301	31.114	-24.570	1.00	17.82	C
ATOM	2827	O	TYR	A	363	17.487	29.899	-24.445	1.00	17.03	O
ATOM	2828	N	MET	A	364	16.223	31.736	-24.095	1.00	17.48	N
ATOM	2829	CA	MET	A	364	15.189	31.025	-23.331	1.00	20.72	C
ATOM	2830	CB	MET	A	364	14.089	31.984	-22.852	1.00	20.54	C
ATOM	2831	CG	MET	A	364	14.560	33.078	-21.873	1.00	21.57	C
ATOM	2832	SD	MET	A	364	15.488	32.503	-20.435	1.00	26.70	S
ATOM	2833	CE	MET	A	364	14.164	31.679	-19.482	1.00	28.90	C
ATOM	2834	C	MET	A	364	14.584	29.886	-24.144	1.00	20.54	C
ATOM	2835	O	MET	A	364	14.468	28.754	-23.658	1.00	19.59	O
ATOM	2836	N	GLU	A	365	14.221	30.182	-25.388	1.00	19.90	N
ATOM	2837	CA	GLU	A	365	13.648	29.175	-26.278	1.00	23.25	C
ATOM	2838	CB	GLU	A	365	13.093	29.830	-27.546	1.00	28.88	C
ATOM	2839	CG	GLU	A	365	12.422	28.857	-28.499	1.00	40.27	C
ATOM	2840	CD	GLU	A	365	10.943	28.637	-28.211	1.00	46.89	C
ATOM	2841	OE1	GLU	A	365	10.250	28.093	-29.104	1.00	50.72	O
ATOM	2842	OE2	GLU	A	365	10.471	29.001	-27.109	1.00	47.40	O
ATOM	2843	C	GLU	A	365	14.645	28.056	-26.621	1.00	22.96	C
ATOM	2844	O	GLU	A	365	14.268	26.883	-26.679	1.00	21.73	O
ATOM	2845	N	LYS	A	366	15.908	28.416	-26.836	1.00	17.70	N
ATOM	2846	CA	LYS	A	366	16.937	27.414	-27.127	1.00	19.86	C
ATOM	2847	CB	LYS	A	366	18.253	28.079	-27.545	1.00	20.09	C
ATOM	2848	CG	LYS	A	366	19.332	27.110	-28.031	1.00	20.27	C
ATOM	2849	CD	LYS	A	366	18.985	26.494	-29.387	1.00	28.82	C
ATOM	2850	CE	LYS	A	366	19.918	25.341	-29.704	1.00	32.20	C
ATOM	2851	NZ	LYS	A	366	19.372	24.478	-30.785	1.00	33.92	N
ATOM	2852	C	LYS	A	366	17.156	26.435	-25.967	1.00	18.69	C
ATOM	2853	O	LYS	A	366	17.182	25.215	-26.173	1.00	20.87	O
ATOM	2854	N	ILE	A	367	17.314	26.956	-24.750	1.00	18.62	N
ATOM	2855	CA	ILE	A	367	17.493	26.090	-23.584	1.00	18.87	C
ATOM	2856	CB	ILE	A	367	17.772	26.906	-22.283	1.00	19.32	C
ATOM	2857	CG1	ILE	A	367	19.033	27.788	-22.420	1.00	20.31	C
ATOM	2858	CD1	ILE	A	367	20.302	27.057	-22.853	1.00	25.23	C
ATOM	2859	CG2	ILE	A	367	17.871	25.981	-21.062	1.00	17.94	C
ATOM	2860	C	ILE	A	367	16.274	25.178	-23.421	1.00	18.84	C
ATOM	2861	O	ILE	A	367	16.421	23.978	-23.180	1.00	20.73	O
ATOM	2862	N	LYS	A	368	15.083	25.744	-23.586	1.00	19.07	N
ATOM	2863	CA	LYS	A	368	13.843	24.971	-23.467	1.00	20.86	C
ATOM	2864	CB	LYS	A	368	12.627	25.876	-23.684	1.00	21.72	C
ATOM	2865	CG	LYS	A	368	11.280	25.145	-23.649	1.00	26.38	C
ATOM	2866	CD	LYS	A	368	10.106	26.092	-23.394	1.00	29.95	C
ATOM	2867	CE	LYS	A	368	9.904	27.098	-24.522	1.00	34.33	C
ATOM	2868	NZ	LYS	A	368	9.620	26.446	-25.833	1.00	39.15	N
ATOM	2869	C	LYS	A	368	13.829	23.807	-24.462	1.00	20.78	C
ATOM	2870	O	LYS	A	368	13.515	22.668	-24.102	1.00	21.74	O
ATOM	2871	N	GLN	A	369	14.192	24.105	-25.706	1.00	22.39	N
ATOM	2872	CA	GLN	A	369	14.265	23.101	-26.763	1.00	25.02	C
ATOM	2873	CB	GLN	A	369	14.624	23.761	-28.097	1.00	31.98	C
ATOM	2874	CG	GLN	A	369	13.423	24.433	-28.774	1.00	41.37	C
ATOM	2875	CD	GLN	A	369	13.807	25.435	-29.860	1.00	46.86	C
ATOM	2876	OE1	GLN	A	369	12.950	26.166	-30.360	1.00	48.54	O
ATOM	2877	NE2	GLN	A	369	15.087	25.472	-30.223	1.00	50.00	N
ATOM	2878	C	GLN	A	369	15.242	21.969	-26.432	1.00	24.58	C
ATOM	2879	O	GLN	A	369	14.936	20.795	-26.667	1.00	23.89	O
ATOM	2880	N	ARG	A	370	16.403	22.324	-25.883	1.00	20.59	N
ATOM	2881	CA	ARG	A	370	17.388	21.338	-25.455	1.00	25.30	C
ATOM	2882	CB	ARG	A	370	18.699	22.011	-25.052	1.00	29.96	C

ATOM	2883	CG	ARG	A	370	19.914	21.435	-25.764	1.00	42.70	C
ATOM	2884	CD	ARG	A	370	20.570	22.380	-26.763	1.00	45.37	C
ATOM	2885	NE	ARG	A	370	21.890	22.796	-26.297	1.00	49.29	N
ATOM	2886	CZ	ARG	A	370	22.828	23.364	-27.048	1.00	46.53	C
ATOM	2887	NH1	ARG	A	370	23.983	23.692	-26.499	1.00	44.59	N
ATOM	2888	NH2	ARG	A	370	22.624	23.608	-28.336	1.00	46.94	N
ATOM	2889	C	ARG	A	370	16.858	20.451	-24.320	1.00	27.79	C
ATOM	2890	O	ARG	A	370	17.082	19.236	-24.323	1.00	22.64	O
ATOM	2891	N	LEU	A	371	16.138	21.053	-23.373	1.00	24.05	N
ATOM	2892	CA	LEU	A	371	15.540	20.297	-22.269	1.00	26.11	C
ATOM	2893	CB	LEU	A	371	15.020	21.237	-21.172	1.00	25.58	C
ATOM	2894	CG	LEU	A	371	16.063	22.031	-20.373	1.00	26.45	C
ATOM	2895	CD1	LEU	A	371	15.369	22.895	-19.332	1.00	25.24	C
ATOM	2896	CD2	LEU	A	371	17.056	21.105	-19.708	1.00	28.24	C
ATOM	2897	C	LEU	A	371	14.416	19.386	-22.757	1.00	23.65	C
ATOM	2898	O	LEU	A	371	14.277	18.259	-22.276	1.00	23.19	O
ATOM	2899	N	PHE	A	372	13.625	19.878	-23.711	1.00	22.83	N
ATOM	2900	CA	PHE	A	372	12.574	19.086	-24.354	1.00	23.96	C
ATOM	2901	CB	PHE	A	372	11.836	19.918	-25.409	1.00	27.20	C
ATOM	2902	CG	PHE	A	372	10.724	20.784	-24.858	1.00	30.62	C
ATOM	2903	CD1	PHE	A	372	10.483	20.877	-23.486	1.00	34.59	C
ATOM	2904	CE1	PHE	A	372	9.452	21.684	-22.988	1.00	32.18	C
ATOM	2905	CZ	PHE	A	372	8.651	22.404	-23.864	1.00	35.53	C
ATOM	2906	CE2	PHE	A	372	8.883	22.323	-25.240	1.00	38.21	C
ATOM	2907	CD2	PHE	A	372	9.918	21.516	-25.725	1.00	35.55	C
ATOM	2908	C	PHE	A	372	13.159	17.836	-25.011	1.00	28.24	C
ATOM	2909	O	PHE	A	372	12.542	16.768	-24.989	1.00	27.97	O
ATOM	2910	N	GLU	A	373	14.354	17.980	-25.584	1.00	28.42	N
ATOM	2911	CA	GLU	A	373	15.062	16.870	-26.216	1.00	31.37	C
ATOM	2912	CB	GLU	A	373	16.310	17.375	-26.948	1.00	33.53	C
ATOM	2913	CG	GLU	A	373	16.934	16.360	-27.894	1.00	42.69	C
ATOM	2914	CD	GLU	A	373	17.915	16.975	-28.882	1.00	47.76	C
ATOM	2915	OE1	GLU	A	373	18.494	16.208	-29.681	1.00	48.13	O
ATOM	2916	OE2	GLU	A	373	18.111	18.215	-28.868	1.00	51.21	O
ATOM	2917	C	GLU	A	373	15.435	15.796	-25.190	1.00	31.95	C
ATOM	2918	O	GLU	A	373	15.324	14.602	-25.469	1.00	29.44	O
ATOM	2919	N	ASN	A	374	15.871	16.223	-24.007	1.00	25.68	N
ATOM	2920	CA	ASN	A	374	16.187	15.288	-22.928	1.00	25.03	C
ATOM	2921	CB	ASN	A	374	16.911	15.997	-21.783	1.00	26.09	C
ATOM	2922	CG	ASN	A	374	18.309	16.470	-22.172	1.00	31.20	C
ATOM	2923	OD1	ASN	A	374	18.915	15.960	-23.116	1.00	30.95	O
ATOM	2924	ND2	ASN	A	374	18.822	17.454	-21.442	1.00	28.88	N
ATOM	2925	C	ASN	A	374	14.943	14.573	-22.402	1.00	24.97	C
ATOM	2926	O	ASN	A	374	14.990	13.383	-22.087	1.00	27.63	O
ATOM	2927	N	LEU	A	375	13.836	15.308	-22.330	1.00	24.23	N
ATOM	2928	CA	LEU	A	375	12.568	14.795	-21.816	1.00	28.02	C
ATOM	2929	CB	LEU	A	375	11.567	15.938	-21.638	1.00	28.86	C
ATOM	2930	CG	LEU	A	375	11.309	16.540	-20.246	1.00	32.84	C
ATOM	2931	CD1	LEU	A	375	12.378	16.196	-19.220	1.00	32.55	C
ATOM	2932	CD2	LEU	A	375	11.125	18.042	-20.343	1.00	33.10	C
ATOM	2933	C	LEU	A	375	11.942	13.703	-22.687	1.00	32.42	C
ATOM	2934	O	LEU	A	375	11.200	12.857	-22.179	1.00	30.92	O
ATOM	2935	N	ARG	A	376	12.231	13.711	-23.988	1.00	29.56	N
ATOM	2936	CA	ARG	A	376	11.667	12.678	-24.864	1.00	35.62	C
ATOM	2937	CB	ARG	A	376	11.472	13.178	-26.306	1.00	40.97	C
ATOM	2938	CG	ARG	A	376	12.727	13.533	-27.065	1.00	45.87	C
ATOM	2939	CD	ARG	A	376	12.464	13.934	-28.510	1.00	51.03	C
ATOM	2940	NE	ARG	A	376	12.334	15.380	-28.675	1.00	53.66	N
ATOM	2941	CZ	ARG	A	376	13.178	16.148	-29.361	1.00	54.53	C
ATOM	2942	NH1	ARG	A	376	14.239	15.623	-29.967	1.00	53.84	N
ATOM	2943	NH2	ARG	A	376	12.957	17.453	-29.444	1.00	56.10	N
ATOM	2944	C	ARG	A	376	12.433	11.348	-24.789	1.00	34.04	C
ATOM	2945	O	ARG	A	376	12.033	10.353	-25.405	1.00	34.00	O

ATOM	2946	N	MET A 377	13.520	11.350	-24.017	1.00	26.29	N
ATOM	2947	CA	MET A 377	14.269	10.146	-23.672	1.00	32.77	C
ATOM	2948	CB	MET A 377	15.722	10.494	-23.325	1.00	34.46	C
ATOM	2949	CG	MET A 377	16.557	11.004	-24.487	1.00	39.11	C
ATOM	2950	SD	MET A 377	16.306	10.063	-25.995	1.00	39.81	S
ATOM	2951	CE	MET A 377	17.086	8.474	-25.570	1.00	42.82	C
ATOM	2952	C	MET A 377	13.637	9.378	-22.507	1.00	34.00	C
ATOM	2953	O	MET A 377	14.109	8.296	-22.150	1.00	35.60	O
ATOM	2954	N	LEU A 378	12.585	9.938	-21.910	1.00	35.22	N
ATOM	2955	CA	LEU A 378	11.848	9.255	-20.848	1.00	39.58	C
ATOM	2956	CB	LEU A 378	10.923	10.225	-20.105	1.00	37.47	C
ATOM	2957	CG	LEU A 378	11.454	11.236	-19.077	1.00	39.01	C
ATOM	2958	CD1	LEU A 378	10.451	11.373	-17.935	1.00	37.35	C
ATOM	2959	CD2	LEU A 378	12.845	10.904	-18.535	1.00	37.58	C
ATOM	2960	C	LEU A 378	11.030	8.097	-21.424	1.00	41.28	C
ATOM	2961	O	LEU A 378	10.796	7.094	-20.748	1.00	46.82	O
ATOM	2962	ZN	ZN A 379	19.053	30.794	-2.957	1.00	19.11	ZN
ATOM	2963	NA	NA A 380	16.532	26.900	-8.341	1.00	7.53	NA
ATOM	2964	O3	TSS A 381	26.560	35.845	-1.374	1.00	30.84	O
ATOM	2965	C9	TSS A 381	26.821	34.998	-0.538	1.00	29.67	C
ATOM	2966	C10	TSS A 381	27.173	35.422	0.860	1.00	30.43	C
ATOM	2967	C11	TSS A 381	27.552	34.478	1.816	1.00	29.52	C
ATOM	2968	C12	TSS A 381	27.872	34.891	3.109	1.00	32.84	C
ATOM	2969	C13	TSS A 381	27.814	36.244	3.459	1.00	32.66	C
ATOM	2970	N2	TSS A 381	28.138	36.658	4.770	1.00	34.23	N
ATOM	2971	C17	TSS A 381	28.270	38.073	5.094	1.00	35.80	C
ATOM	2972	C16	TSS A 381	28.339	35.673	5.826	1.00	33.26	C
ATOM	2973	C14	TSS A 381	27.429	37.184	2.499	1.00	31.75	C
ATOM	2974	C15	TSS A 381	27.115	36.776	1.205	1.00	32.43	C
ATOM	2975	C2	TSS A 381	26.756	33.540	-0.906	1.00	30.30	C
ATOM	2976	C1	TSS A 381	27.513	33.302	-2.211	1.00	31.69	C
ATOM	2977	C3	TSS A 381	25.295	33.142	-1.037	1.00	31.43	C
ATOM	2978	C4	TSS A 381	24.734	32.016	-0.547	1.00	28.97	C
ATOM	2979	C5	TSS A 381	25.560	31.004	0.196	1.00	30.38	C
ATOM	2980	C6	TSS A 381	23.280	31.810	-0.780	1.00	29.11	C
ATOM	2981	C7	TSS A 381	22.601	30.679	-0.533	1.00	30.26	C
ATOM	2982	C8	TSS A 381	21.140	30.616	-0.824	1.00	34.30	C
ATOM	2983	O1	TSS A 381	20.529	31.655	-0.988	1.00	33.99	O
ATOM	2984	N1	TSS A 381	20.493	29.446	-0.918	1.00	39.82	N
ATOM	2985	O2	TSS A 381	19.604	29.233	-1.781	1.00	28.30	O
ATOM	2986	N	LYS B 14	50.323	15.582	-35.191	1.00	51.80	N
ATOM	2987	CA	LYS B 14	50.848	16.978	-35.108	1.00	50.24	C
ATOM	2988	CB	LYS B 14	50.366	17.807	-36.303	1.00	54.02	C
ATOM	2989	CG	LYS B 14	51.103	17.508	-37.605	1.00	56.04	C
ATOM	2990	CD	LYS B 14	51.096	18.707	-38.532	1.00	57.82	C
ATOM	2991	CE	LYS B 14	51.995	18.481	-39.737	1.00	59.21	C
ATOM	2992	NZ	LYS B 14	51.576	19.327	-40.891	1.00	61.17	N
ATOM	2993	C	LYS B 14	50.457	17.647	-33.788	1.00	47.13	C
ATOM	2994	O	LYS B 14	49.270	17.772	-33.467	1.00	45.65	O
ATOM	2995	N	LYS B 15	51.469	18.069	-33.030	1.00	39.99	N
ATOM	2996	CA	LYS B 15	51.271	18.657	-31.711	1.00	34.39	C
ATOM	2997	CB	LYS B 15	52.545	18.514	-30.874	1.00	35.90	C
ATOM	2998	CG	LYS B 15	52.369	18.880	-29.406	1.00	41.66	C
ATOM	2999	CD	LYS B 15	53.505	18.345	-28.567	1.00	44.32	C
ATOM	3000	CE	LYS B 15	53.240	18.564	-27.089	1.00	47.55	C
ATOM	3001	NZ	LYS B 15	54.494	18.501	-26.289	1.00	49.77	N
ATOM	3002	C	LYS B 15	50.867	20.131	-31.802	1.00	31.11	C
ATOM	3003	O	LYS B 15	51.446	20.893	-32.577	1.00	29.11	O
ATOM	3004	N	VAL B 16	49.876	20.515	-31.000	1.00	24.52	N
ATOM	3005	CA	VAL B 16	49.434	21.902	-30.910	1.00	22.76	C
ATOM	3006	CB	VAL B 16	47.969	22.065	-31.390	1.00	23.04	C
ATOM	3007	CG1	VAL B 16	47.478	23.504	-31.176	1.00	25.92	C
ATOM	3008	CG2	VAL B 16	47.820	21.642	-32.852	1.00	25.01	C

ATOM	3009	C	VAL	B	16	49.555	22.397	-29.474	1.00	20.81	C
ATOM	3010	O	VAL	B	16	48.994	21.795	-28.558	1.00	24.15	O
ATOM	3011	N	CYS	B	17	50.300	23.484	-29.277	1.00	17.41	N
ATOM	3012	CA	CYS	B	17	50.360	24.148	-27.980	1.00	18.48	C
ATOM	3013	CB	BCYS	B	17	51.790	24.285	-27.459	0.35	22.45	C
ATOM	3014	CB	ACYS	B	17	51.818	24.443	-27.601	0.65	20.21	C
ATOM	3015	SG	BCYS	B	17	52.741	25.645	-28.133	0.35	23.89	S
ATOM	3016	SG	ACYS	B	17	52.853	23.001	-27.210	0.65	23.09	S
ATOM	3017	C	CYS	B	17	49.623	25.481	-28.056	1.00	21.96	C
ATOM	3018	O	CYS	B	17	49.727	26.205	-29.044	1.00	22.77	O
ATOM	3019	N	TYR	B	18	48.888	25.797	-27.002	1.00	17.18	N
ATOM	3020	CA	TYR	B	18	47.931	26.891	-27.039	1.00	17.25	C
ATOM	3021	CB	TYR	B	18	46.523	26.289	-27.138	1.00	15.54	C
ATOM	3022	CG	TYR	B	18	45.343	27.185	-26.827	1.00	18.67	C
ATOM	3023	CD1	TYR	B	18	44.981	27.456	-25.514	1.00	20.20	C
ATOM	3024	CE1	TYR	B	18	43.886	28.249	-25.219	1.00	20.26	C
ATOM	3025	CZ	TYR	B	18	43.128	28.767	-26.243	1.00	18.48	C
ATOM	3026	OH	TYR	B	18	42.041	29.533	-25.918	1.00	21.90	O
ATOM	3027	CE2	TYR	B	18	43.441	28.495	-27.564	1.00	20.99	C
ATOM	3028	CD2	TYR	B	18	44.547	27.703	-27.852	1.00	20.60	C
ATOM	3029	C	TYR	B	18	48.134	27.704	-25.777	1.00	14.77	C
ATOM	3030	O	TYR	B	18	48.245	27.142	-24.685	1.00	14.94	O
ATOM	3031	N	TYR	B	19	48.205	29.022	-25.937	1.00	13.05	N
ATOM	3032	CA	TYR	B	19	48.430	29.932	-24.816	1.00	13.85	C
ATOM	3033	CB	TYR	B	19	49.549	30.915	-25.142	1.00	16.58	C
ATOM	3034	CG	TYR	B	19	50.878	30.224	-25.168	1.00	19.18	C
ATOM	3035	CD1	TYR	B	19	51.322	29.583	-26.323	1.00	22.65	C
ATOM	3036	CE1	TYR	B	19	52.543	28.918	-26.347	1.00	27.72	C
ATOM	3037	CZ	TYR	B	19	53.324	28.893	-25.207	1.00	26.45	C
ATOM	3038	OH	TYR	B	19	54.532	28.239	-25.234	1.00	31.65	O
ATOM	3039	CE2	TYR	B	19	52.902	29.518	-24.044	1.00	23.98	C
ATOM	3040	CD2	TYR	B	19	51.678	30.177	-24.028	1.00	19.88	C
ATOM	3041	C	TYR	B	19	47.195	30.688	-24.393	1.00	16.78	C
ATOM	3042	O	TYR	B	19	46.464	31.215	-25.225	1.00	15.60	O
ATOM	3043	N	TYR	B	20	46.969	30.733	-23.084	1.00	15.74	N
ATOM	3044	CA	TYR	B	20	45.857	31.489	-22.527	1.00	16.70	C
ATOM	3045	CB	TYR	B	20	44.566	30.677	-22.586	1.00	18.23	C
ATOM	3046	CG	TYR	B	20	43.364	31.357	-21.958	1.00	17.55	C
ATOM	3047	CD1	TYR	B	20	42.869	30.940	-20.715	1.00	20.04	C
ATOM	3048	CE1	TYR	B	20	41.755	31.567	-20.135	1.00	20.94	C
ATOM	3049	CZ	TYR	B	20	41.126	32.603	-20.820	1.00	20.53	C
ATOM	3050	OH	TYR	B	20	40.022	33.230	-20.285	1.00	22.42	O
ATOM	3051	CE2	TYR	B	20	41.597	33.023	-22.047	1.00	16.20	C
ATOM	3052	CD2	TYR	B	20	42.707	32.396	-22.614	1.00	18.73	C
ATOM	3053	C	TYR	B	20	46.133	31.848	-21.091	1.00	18.34	C
ATOM	3054	O	TYR	B	20	46.519	30.993	-20.290	1.00	16.36	O
ATOM	3055	N	ASP	B	21	45.922	33.118	-20.769	1.00	17.66	N
ATOM	3056	CA	ASP	B	21	45.899	33.545	-19.381	1.00	21.06	C
ATOM	3057	CB	ASP	B	21	46.890	34.679	-19.135	1.00	22.10	C
ATOM	3058	CG	ASP	B	21	47.009	35.023	-17.669	1.00	30.63	C
ATOM	3059	OD1	ASP	B	21	47.969	34.558	-17.019	1.00	32.60	O
ATOM	3060	OD2	ASP	B	21	46.171	35.730	-17.076	1.00	27.90	O
ATOM	3061	C	ASP	B	21	44.491	33.987	-19.006	1.00	21.45	C
ATOM	3062	O	ASP	B	21	43.889	34.822	-19.692	1.00	19.73	O
ATOM	3063	N	GLY	B	22	43.995	33.442	-17.897	1.00	21.84	N
ATOM	3064	CA	GLY	B	22	42.667	33.738	-17.393	1.00	23.46	C
ATOM	3065	C	GLY	B	22	42.364	35.196	-17.104	1.00	25.27	C
ATOM	3066	O	GLY	B	22	41.200	35.566	-16.984	1.00	26.54	O
ATOM	3067	N	ASP	B	23	43.398	36.024	-16.990	1.00	22.26	N
ATOM	3068	CA	ASP	B	23	43.198	37.437	-16.686	1.00	24.80	C
ATOM	3069	CB	ASP	B	23	44.305	37.951	-15.776	1.00	31.31	C
ATOM	3070	CG	ASP	B	23	43.969	37.771	-14.321	1.00	38.00	C
ATOM	3071	OD1	ASP	B	23	44.790	37.169	-13.607	1.00	37.96	O

ATOM	3072	OD2	ASP	B	23	42.897	38.182	-13.815	1.00	39.84	O
ATOM	3073	C	ASP	B	23	43.092	38.326	-17.915	1.00	23.01	C
ATOM	3074	O	ASP	B	23	42.695	39.488	-17.805	1.00	21.92	O
ATOM	3075	N	ILE	B	24	43.438	37.778	-19.080	1.00	21.13	N
ATOM	3076	CA	ILE	B	24	43.468	38.565	-20.308	1.00	21.45	C
ATOM	3077	CB	ILE	B	24	43.966	37.723	-21.517	1.00	23.79	C
ATOM	3078	CG1	ILE	B	24	44.466	38.643	-22.639	1.00	27.39	C
ATOM	3079	CD1	ILE	B	24	45.900	39.166	-22.407	1.00	30.99	C
ATOM	3080	CG2	ILE	B	24	42.888	36.744	-22.014	1.00	22.75	C
ATOM	3081	C	ILE	B	24	42.128	39.259	-20.576	1.00	21.93	C
ATOM	3082	O	ILE	B	24	42.103	40.420	-20.987	1.00	21.23	O
ATOM	3083	N	GLY	B	25	41.031	38.562	-20.284	1.00	19.89	N
ATOM	3084	CA	GLY	B	25	39.694	39.082	-20.513	1.00	21.42	C
ATOM	3085	C	GLY	B	25	39.256	40.181	-19.562	1.00	23.69	C
ATOM	3086	O	GLY	B	25	38.212	40.791	-19.779	1.00	24.43	O
ATOM	3087	N	ASN	B	26	40.047	40.441	-18.520	1.00	19.98	N
ATOM	3088	CA	ASN	B	26	39.684	41.435	-17.511	1.00	25.72	C
ATOM	3089	CB	ASN	B	26	40.064	40.952	-16.107	1.00	27.49	C
ATOM	3090	CG	ASN	B	26	39.302	39.704	-15.693	1.00	30.56	C
ATOM	3091	OD1	ASN	B	26	38.108	39.571	-15.966	1.00	34.41	O
ATOM	3092	ND2	ASN	B	26	39.992	38.782	-15.031	1.00	32.47	N
ATOM	3093	C	ASN	B	26	40.245	42.833	-17.765	1.00	26.16	C
ATOM	3094	O	ASN	B	26	39.881	43.783	-17.068	1.00	26.56	O
ATOM	3095	N	TYR	B	27	41.122	42.956	-18.758	1.00	19.89	N
ATOM	3096	CA	TYR	B	27	41.658	44.259	-19.139	1.00	22.37	C
ATOM	3097	CB	TYR	B	27	43.019	44.121	-19.829	1.00	20.95	C
ATOM	3098	CG	TYR	B	27	44.059	43.535	-18.902	1.00	21.65	C
ATOM	3099	CD1	TYR	B	27	44.326	42.170	-18.909	1.00	21.34	C
ATOM	3100	CE1	TYR	B	27	45.258	41.618	-18.049	1.00	24.27	C
ATOM	3101	CZ	TYR	B	27	45.938	42.433	-17.162	1.00	28.40	C
ATOM	3102	OH	TYR	B	27	46.861	41.870	-16.319	1.00	29.25	O
ATOM	3103	CE2	TYR	B	27	45.692	43.798	-17.123	1.00	26.37	C
ATOM	3104	CD2	TYR	B	27	44.748	44.341	-17.991	1.00	23.32	C
ATOM	3105	C	TYR	B	27	40.637	44.957	-20.012	1.00	22.54	C
ATOM	3106	O	TYR	B	27	39.944	44.316	-20.802	1.00	23.64	O
ATOM	3107	N	TYR	B	28	40.531	46.268	-19.849	1.00	22.07	N
ATOM	3108	CA	TYR	B	28	39.422	47.016	-20.420	1.00	21.64	C
ATOM	3109	CB	TYR	B	28	38.378	47.266	-19.332	1.00	25.47	C
ATOM	3110	CG	TYR	B	28	37.092	47.906	-19.792	1.00	28.96	C
ATOM	3111	CD1	TYR	B	28	36.310	47.322	-20.791	1.00	31.80	C
ATOM	3112	CE1	TYR	B	28	35.117	47.913	-21.206	1.00	33.40	C
ATOM	3113	CZ	TYR	B	28	34.699	49.092	-20.607	1.00	33.32	C
ATOM	3114	OH	TYR	B	28	33.522	49.683	-21.003	1.00	39.34	O
ATOM	3115	CE2	TYR	B	28	35.456	49.689	-19.612	1.00	32.14	C
ATOM	3116	CD2	TYR	B	28	36.644	49.092	-19.207	1.00	31.49	C
ATOM	3117	C	TYR	B	28	39.909	48.320	-21.021	1.00	21.39	C
ATOM	3118	O	TYR	B	28	40.462	49.178	-20.317	1.00	19.23	O
ATOM	3119	N	TYR	B	29	39.715	48.458	-22.333	1.00	18.91	N
ATOM	3120	CA	TYR	B	29	40.189	49.636	-23.063	1.00	19.68	C
ATOM	3121	CB	TYR	B	29	40.127	49.390	-24.570	1.00	17.54	C
ATOM	3122	CG	TYR	B	29	41.346	48.710	-25.167	1.00	16.08	C
ATOM	3123	CD1	TYR	B	29	42.125	49.355	-26.128	1.00	17.57	C
ATOM	3124	CE1	TYR	B	29	43.238	48.727	-26.703	1.00	16.59	C
ATOM	3125	CZ	TYR	B	29	43.575	47.440	-26.301	1.00	18.46	C
ATOM	3126	OH	TYR	B	29	44.668	46.814	-26.859	1.00	19.77	O
ATOM	3127	CE2	TYR	B	29	42.819	46.782	-25.349	1.00	19.43	C
ATOM	3128	CD2	TYR	B	29	41.709	47.418	-24.785	1.00	19.55	C
ATOM	3129	C	TYR	B	29	39.406	50.910	-22.726	1.00	23.36	C
ATOM	3130	O	TYR	B	29	39.890	52.013	-22.966	1.00	27.73	O
ATOM	3131	N	GLY	B	30	38.200	50.756	-22.188	1.00	24.71	N
ATOM	3132	CA	GLY	B	30	37.378	51.900	-21.837	1.00	25.50	C
ATOM	3133	C	GLY	B	30	36.042	51.872	-22.543	1.00	26.39	C
ATOM	3134	O	GLY	B	30	35.876	51.182	-23.552	1.00	24.07	O

ATOM	3135	N	GLN	B	31	35.080	52.621	-22.011	1.00	29.26	N
ATOM	3136	CA	GLN	B	31	33.730	52.659	-22.578	1.00	31.59	C
ATOM	3137	CB	GLN	B	31	32.810	53.538	-21.723	1.00	36.77	C
ATOM	3138	CG	GLN	B	31	31.326	53.295	-21.951	1.00	43.29	C
ATOM	3139	CD	GLN	B	31	30.463	53.876	-20.844	1.00	46.50	C
ATOM	3140	OE1	GLN	B	31	30.325	55.096	-20.733	1.00	50.54	O
ATOM	3141	NE2	GLN	B	31	29.883	53.006	-20.023	1.00	46.22	N
ATOM	3142	C	GLN	B	31	33.739	53.145	-24.027	1.00	27.93	C
ATOM	3143	O	GLN	B	31	34.385	54.139	-24.351	1.00	30.21	O
ATOM	3144	N	GLY	B	32	33.043	52.416	-24.894	1.00	27.86	N
ATOM	3145	CA	GLY	B	32	32.940	52.777	-26.298	1.00	29.95	C
ATOM	3146	C	GLY	B	32	34.095	52.315	-27.174	1.00	25.89	C
ATOM	3147	O	GLY	B	32	34.038	52.459	-28.396	1.00	26.27	O
ATOM	3148	N	HIS	B	33	35.143	51.761	-26.568	1.00	21.74	N
ATOM	3149	CA	HIS	B	33	36.288	51.312	-27.356	1.00	19.54	C
ATOM	3150	CB	HIS	B	33	37.567	51.262	-26.521	1.00	18.99	C
ATOM	3151	CG	HIS	B	33	38.815	51.289	-27.347	1.00	20.07	C
ATOM	3152	ND1	HIS	B	33	39.202	50.229	-28.142	1.00	19.52	N
ATOM	3153	CE1	HIS	B	33	40.322	50.537	-28.766	1.00	20.05	C
ATOM	3154	NE2	HIS	B	33	40.676	51.760	-28.410	1.00	21.63	N
ATOM	3155	CD2	HIS	B	33	39.747	52.255	-27.526	1.00	19.75	C
ATOM	3156	C	HIS	B	33	35.979	49.946	-27.964	1.00	18.55	C
ATOM	3157	O	HIS	B	33	35.560	49.029	-27.251	1.00	21.21	O
ATOM	3158	N	PRO	B	34	36.164	49.813	-29.276	1.00	20.37	N
ATOM	3159	CA	PRO	B	34	35.811	48.566	-29.965	1.00	20.22	C
ATOM	3160	CB	PRO	B	34	35.963	48.912	-31.453	1.00	20.65	C
ATOM	3161	CG	PRO	B	34	36.780	50.137	-31.514	1.00	23.26	C
ATOM	3162	CD	PRO	B	34	36.681	50.840	-30.200	1.00	20.22	C
ATOM	3163	C	PRO	B	34	36.696	47.369	-29.596	1.00	16.58	C
ATOM	3164	O	PRO	B	34	36.256	46.240	-29.801	1.00	15.53	O
ATOM	3165	N	MET	B	35	37.913	47.602	-29.105	1.00	14.38	N
ATOM	3166	CA	MET	B	35	38.796	46.483	-28.741	1.00	18.29	C
ATOM	3167	CB	MET	B	35	40.271	46.923	-28.743	1.00	14.94	C
ATOM	3168	CG	MET	B	35	41.287	45.805	-28.449	1.00	21.90	C
ATOM	3169	SD	MET	B	35	41.050	44.277	-29.401	1.00	25.35	S
ATOM	3170	CE	MET	B	35	42.057	44.597	-30.837	1.00	24.31	C
ATOM	3171	C	MET	B	35	38.382	45.907	-27.381	1.00	17.08	C
ATOM	3172	O	MET	B	35	38.429	46.602	-26.367	1.00	18.24	O
ATOM	3173	N	LYS	B	36	37.972	44.637	-27.368	1.00	15.39	N
ATOM	3174	CA	LYS	B	36	37.438	44.015	-26.162	1.00	15.49	C
ATOM	3175	CB	LYS	B	36	35.944	43.712	-26.334	1.00	18.66	C
ATOM	3176	CG	LYS	B	36	35.062	44.958	-26.439	1.00	24.64	C
ATOM	3177	CD	LYS	B	36	33.744	44.627	-27.115	1.00	28.78	C
ATOM	3178	CE	LYS	B	36	32.934	45.882	-27.447	1.00	34.51	C
ATOM	3179	NZ	LYS	B	36	32.983	46.926	-26.389	1.00	37.35	N
ATOM	3180	C	LYS	B	36	38.183	42.722	-25.822	1.00	15.82	C
ATOM	3181	O	LYS	B	36	37.858	41.673	-26.362	1.00	15.92	O
ATOM	3182	N	PRO	B	37	39.183	42.794	-24.948	1.00	16.12	N
ATOM	3183	CA	PRO	B	37	39.950	41.601	-24.556	1.00	18.00	C
ATOM	3184	CB	PRO	B	37	40.831	42.126	-23.426	1.00	16.18	C
ATOM	3185	CG	PRO	B	37	41.091	43.559	-23.844	1.00	16.69	C
ATOM	3186	CD	PRO	B	37	39.718	44.017	-24.313	1.00	16.61	C
ATOM	3187	C	PRO	B	37	39.086	40.424	-24.084	1.00	17.51	C
ATOM	3188	O	PRO	B	37	39.538	39.280	-24.150	1.00	18.82	O
ATOM	3189	N	HIS	B	38	37.868	40.714	-23.624	1.00	17.95	N
ATOM	3190	CA	HIS	B	38	36.898	39.700	-23.202	1.00	16.18	C
ATOM	3191	CB	HIS	B	38	35.586	40.391	-22.816	1.00	23.69	C
ATOM	3192	CG	HIS	B	38	34.554	39.464	-22.261	1.00	28.89	C
ATOM	3193	ND1	HIS	B	38	33.281	39.371	-22.782	1.00	35.54	N
ATOM	3194	CE1	HIS	B	38	32.591	38.480	-22.091	1.00	33.51	C
ATOM	3195	NE2	HIS	B	38	33.372	37.994	-21.141	1.00	35.94	N
ATOM	3196	CD2	HIS	B	38	34.605	38.590	-21.228	1.00	27.90	C
ATOM	3197	C	HIS	B	38	36.633	38.648	-24.288	1.00	17.96	C

ATOM	3198	O	HIS	B	38	36.290	37.492	-23.990	1.00	17.83	O
ATOM	3199	N	ARG	B	39	36.791	39.052	-25.548	1.00	16.39	N
ATOM	3200	CA	ARG	B	39	36.621	38.141	-26.679	1.00	14.98	C
ATOM	3201	CB	ARG	B	39	36.797	38.886	-28.017	1.00	16.89	C
ATOM	3202	CG	ARG	B	39	38.246	39.199	-28.383	1.00	16.83	C
ATOM	3203	CD	ARG	B	39	38.460	40.439	-29.248	1.00	17.98	C
ATOM	3204	NE	ARG	B	39	39.904	40.659	-29.335	1.00	18.74	N
ATOM	3205	CZ	ARG	B	39	40.591	40.774	-30.457	1.00	22.41	C
ATOM	3206	NH1	ARG	B	39	39.968	40.778	-31.635	1.00	20.23	N
ATOM	3207	NH2	ARG	B	39	41.911	40.923	-30.399	1.00	20.02	N
ATOM	3208	C	ARG	B	39	37.558	36.930	-26.594	1.00	14.04	C
ATOM	3209	O	ARG	B	39	37.216	35.858	-27.088	1.00	16.91	O
ATOM	3210	N	ILE	B	40	38.725	37.099	-25.963	1.00	13.87	N
ATOM	3211	CA	ILE	B	40	39.688	35.993	-25.845	1.00	13.96	C
ATOM	3212	CB	ILE	B	40	41.096	36.515	-25.439	1.00	15.30	C
ATOM	3213	CG1	ILE	B	40	41.613	37.517	-26.482	1.00	21.15	C
ATOM	3214	CD1	ILE	B	40	42.409	38.630	-25.877	1.00	31.64	C
ATOM	3215	CG2	ILE	B	40	42.104	35.357	-25.284	1.00	17.86	C
ATOM	3216	C	ILE	B	40	39.157	34.961	-24.846	1.00	16.80	C
ATOM	3217	O	ILE	B	40	39.290	33.750	-25.058	1.00	16.33	O
ATOM	3218	N	ARG	B	41	38.547	35.456	-23.772	1.00	15.85	N
ATOM	3219	CA	ARG	B	41	37.914	34.601	-22.776	1.00	17.53	C
ATOM	3220	CB	ARG	B	41	37.475	35.410	-21.552	1.00	18.35	C
ATOM	3221	CG	ARG	B	41	36.813	34.560	-20.459	1.00	24.94	C
ATOM	3222	CD	ARG	B	41	36.730	35.228	-19.090	1.00	30.95	C
ATOM	3223	NE	ARG	B	41	36.331	36.629	-19.191	1.00	35.13	N
ATOM	3224	CZ	ARG	B	41	36.679	37.574	-18.326	1.00	39.51	C
ATOM	3225	NH1	ARG	B	41	37.439	37.278	-17.279	1.00	40.29	N
ATOM	3226	NH2	ARG	B	41	36.264	38.821	-18.508	1.00	40.45	N
ATOM	3227	C	ARG	B	41	36.719	33.874	-23.393	1.00	17.35	C
ATOM	3228	O	ARG	B	41	36.518	32.692	-23.134	1.00	14.42	O
ATOM	3229	N	MET	B	42	35.939	34.574	-24.216	1.00	13.95	N
ATOM	3230	CA	MET	B	42	34.806	33.937	-24.908	1.00	15.13	C
ATOM	3231	CB	MET	B	42	34.011	34.958	-25.718	1.00	16.57	C
ATOM	3232	CG	MET	B	42	33.248	35.957	-24.882	1.00	22.55	C
ATOM	3233	SD	MET	B	42	32.491	37.188	-25.967	1.00	27.39	S
ATOM	3234	CE	MET	B	42	31.358	36.118	-26.937	1.00	19.76	C
ATOM	3235	C	MET	B	42	35.254	32.797	-25.813	1.00	15.40	C
ATOM	3236	O	MET	B	42	34.642	31.724	-25.823	1.00	16.48	O
ATOM	3237	N	THR	B	43	36.331	33.040	-26.559	1.00	15.35	N
ATOM	3238	CA	THR	B	43	36.963	32.038	-27.409	1.00	15.79	C
ATOM	3239	CB	THR	B	43	38.202	32.659	-28.101	1.00	16.45	C
ATOM	3240	OG1	THR	B	43	37.789	33.743	-28.943	1.00	16.25	O
ATOM	3241	CG2	THR	B	43	38.862	31.663	-29.043	1.00	16.42	C
ATOM	3242	C	THR	B	43	37.406	30.827	-26.599	1.00	14.88	C
ATOM	3243	O	THR	B	43	37.103	29.681	-26.949	1.00	13.01	O
ATOM	3244	N	HIS	B	44	38.144	31.086	-25.527	1.00	16.50	N
ATOM	3245	CA	HIS	B	44	38.633	30.014	-24.667	1.00	17.55	C
ATOM	3246	CB	HIS	B	44	39.468	30.598	-23.528	1.00	15.58	C
ATOM	3247	CG	HIS	B	44	40.152	29.562	-22.697	1.00	18.57	C
ATOM	3248	ND1	HIS	B	44	41.199	28.806	-23.172	1.00	19.42	N
ATOM	3249	CE1	HIS	B	44	41.609	27.981	-22.226	1.00	20.26	C
ATOM	3250	NE2	HIS	B	44	40.865	28.177	-21.153	1.00	19.48	N
ATOM	3251	CD2	HIS	B	44	39.943	29.160	-21.422	1.00	19.18	C
ATOM	3252	C	HIS	B	44	37.478	29.188	-24.111	1.00	15.76	C
ATOM	3253	O	HIS	B	44	37.495	27.957	-24.167	1.00	16.07	O
ATOM	3254	N	ASN	B	45	36.461	29.871	-23.594	1.00	15.87	N
ATOM	3255	CA	ASN	B	45	35.306	29.186	-23.011	1.00	18.20	C
ATOM	3256	CB	ASN	B	45	34.358	30.195	-22.362	1.00	16.63	C
ATOM	3257	CG	ASN	B	45	33.273	29.527	-21.548	1.00	22.63	C
ATOM	3258	OD1	ASN	B	45	32.143	29.391	-22.006	1.00	21.45	O
ATOM	3259	ND2	ASN	B	45	33.614	29.099	-20.337	1.00	21.84	N
ATOM	3260	C	ASN	B	45	34.562	28.301	-24.024	1.00	18.20	C

ATOM	3261	O	ASN	B	45	34.139	27.186	-23.699	1.00	14.66	O
ATOM	3262	N	LEU	B	46	34.430	28.784	-25.254	1.00	14.22	N
ATOM	3263	CA	LEU	B	46	33.782	28.002	-26.310	1.00	17.00	C
ATOM	3264	CB	LEU	B	46	33.601	28.851	-27.578	1.00	16.73	C
ATOM	3265	CG	LEU	B	46	32.249	28.883	-28.300	1.00	25.32	C
ATOM	3266	CD1	LEU	B	46	32.439	29.295	-29.770	1.00	18.98	C
ATOM	3267	CD2	LEU	B	46	31.419	27.592	-28.160	1.00	17.55	C
ATOM	3268	C	LEU	B	46	34.594	26.757	-26.634	1.00	17.29	C
ATOM	3269	O	LEU	B	46	34.050	25.659	-26.748	1.00	15.95	O
ATOM	3270	N	LEU	B	47	35.904	26.948	-26.780	1.00	18.12	N
ATOM	3271	CA	LEU	B	47	36.841	25.878	-27.089	1.00	20.12	C
ATOM	3272	CB	BLEU	B	47	38.242	26.480	-27.249	0.35	24.84	C
ATOM	3273	CB	ALEU	B	47	38.267	26.434	-27.218	0.65	23.54	C
ATOM	3274	CG	BLEU	B	47	39.495	25.640	-27.036	0.35	26.90	C
ATOM	3275	CG	ALEU	B	47	38.644	27.074	-28.548	0.65	24.19	C
ATOM	3276	CD1	BLEU	B	47	40.395	25.853	-28.218	0.35	28.65	C
ATOM	3277	CD1	ALEU	B	47	39.915	27.895	-28.405	0.65	21.58	C
ATOM	3278	CD2	BLEU	B	47	40.193	26.033	-25.749	0.35	29.19	C
ATOM	3279	CD2	ALEU	B	47	38.816	26.008	-29.600	0.65	25.26	C
ATOM	3280	C	LEU	B	47	36.835	24.791	-26.023	1.00	21.46	C
ATOM	3281	O	LEU	B	47	36.868	23.595	-26.335	1.00	20.57	O
ATOM	3282	N	LEU	B	48	36.823	25.216	-24.765	1.00	17.70	N
ATOM	3283	CA	LEU	B	48	36.763	24.288	-23.642	1.00	19.47	C
ATOM	3284	CB	LEU	B	48	36.847	25.037	-22.309	1.00	22.03	C
ATOM	3285	CG	LEU	B	48	38.204	25.577	-21.827	1.00	25.01	C
ATOM	3286	CD1	LEU	B	48	38.120	25.977	-20.358	1.00	26.72	C
ATOM	3287	CD2	LEU	B	48	39.347	24.589	-22.044	1.00	26.26	C
ATOM	3288	C	LEU	B	48	35.473	23.480	-23.699	1.00	19.56	C
ATOM	3289	O	LEU	B	48	35.489	22.273	-23.493	1.00	19.16	O
ATOM	3290	N	ASN	B	49	34.361	24.151	-23.995	1.00	14.22	N
ATOM	3291	CA	ASN	B	49	33.071	23.468	-24.062	1.00	16.89	C
ATOM	3292	CB	ASN	B	49	31.932	24.470	-23.915	1.00	15.73	C
ATOM	3293	CG	ASN	B	49	31.686	24.834	-22.465	1.00	16.91	C
ATOM	3294	OD1	ASN	B	49	31.191	24.014	-21.698	1.00	20.28	O
ATOM	3295	ND2	ASN	B	49	32.060	26.048	-22.075	1.00	15.59	N
ATOM	3296	C	ASN	B	49	32.884	22.554	-25.276	1.00	19.55	C
ATOM	3297	O	ASN	B	49	32.022	21.674	-25.267	1.00	18.78	O
ATOM	3298	N	TYR	B	50	33.704	22.754	-26.308	1.00	17.90	N
ATOM	3299	CA	TYR	B	50	33.775	21.815	-27.430	1.00	20.30	C
ATOM	3300	CB	TYR	B	50	34.329	22.516	-28.669	1.00	18.47	C
ATOM	3301	CG	TYR	B	50	33.278	23.059	-29.614	1.00	16.02	C
ATOM	3302	CD1	TYR	B	50	32.473	22.192	-30.362	1.00	16.98	C
ATOM	3303	CE1	TYR	B	50	31.507	22.689	-31.240	1.00	16.48	C
ATOM	3304	CZ	TYR	B	50	31.364	24.068	-31.396	1.00	18.51	C
ATOM	3305	OH	TYR	B	50	30.422	24.545	-32.268	1.00	17.03	O
ATOM	3306	CE2	TYR	B	50	32.153	24.953	-30.671	1.00	15.64	C
ATOM	3307	CD2	TYR	B	50	33.109	24.443	-29.785	1.00	17.94	C
ATOM	3308	C	TYR	B	50	34.650	20.601	-27.095	1.00	21.42	C
ATOM	3309	O	TYR	B	50	34.677	19.610	-27.839	1.00	22.64	O
ATOM	3310	N	GLY	B	51	35.381	20.699	-25.992	1.00	19.41	N
ATOM	3311	CA	GLY	B	51	36.262	19.637	-25.528	1.00	24.87	C
ATOM	3312	C	GLY	B	51	37.629	19.612	-26.188	1.00	26.32	C
ATOM	3313	O	GLY	B	51	38.341	18.605	-26.116	1.00	28.08	O
ATOM	3314	N	LEU	B	52	38.008	20.716	-26.830	1.00	23.50	N
ATOM	3315	CA	LEU	B	52	39.271	20.767	-27.568	1.00	22.03	C
ATOM	3316	CB	LEU	B	52	39.293	21.963	-28.531	1.00	22.15	C
ATOM	3317	CG	LEU	B	52	38.307	21.931	-29.714	1.00	26.16	C
ATOM	3318	CD1	LEU	B	52	38.611	23.046	-30.692	1.00	30.60	C
ATOM	3319	CD2	LEU	B	52	38.305	20.593	-30.440	1.00	28.55	C
ATOM	3320	C	LEU	B	52	40.520	20.742	-26.670	1.00	20.59	C
ATOM	3321	O	LEU	B	52	41.629	20.510	-27.152	1.00	23.95	O
ATOM	3322	N	TYR	B	53	40.338	20.965	-25.369	1.00	21.65	N
ATOM	3323	CA	TYR	B	53	41.433	20.847	-24.398	1.00	22.91	C

ATOM	3324	CB	TYR	B	53	40.996	21.325	-23.010	1.00	25.41	C
ATOM	3325	CG	TYR	B	53	39.918	20.481	-22.384	1.00	28.97	C
ATOM	3326	CD1	TYR	B	53	40.245	19.362	-21.614	1.00	27.77	C
ATOM	3327	CE1	TYR	B	53	39.259	18.576	-21.049	1.00	33.48	C
ATOM	3328	CZ	TYR	B	53	37.926	18.906	-21.245	1.00	31.95	C
ATOM	3329	OH	TYR	B	53	36.951	18.125	-20.677	1.00	35.08	O
ATOM	3330	CE2	TYR	B	53	37.572	20.016	-22.001	1.00	28.45	C
ATOM	3331	CD2	TYR	B	53	38.566	20.792	-22.569	1.00	25.31	C
ATOM	3332	C	TYR	B	53	41.983	19.417	-24.318	1.00	27.33	C
ATOM	3333	O	TYR	B	53	43.115	19.198	-23.888	1.00	28.15	O
ATOM	3334	N	ARG	B	54	41.173	18.449	-24.737	1.00	27.45	N
ATOM	3335	CA	ARG	B	54	41.571	17.042	-24.718	1.00	31.82	C
ATOM	3336	CB	ARG	B	54	40.352	16.142	-24.947	1.00	36.39	C
ATOM	3337	CG	ARG	B	54	39.310	16.221	-23.847	1.00	43.10	C
ATOM	3338	CD	ARG	B	54	38.821	14.868	-23.360	1.00	52.75	C
ATOM	3339	NE	ARG	B	54	37.770	14.332	-24.222	1.00	58.08	N
ATOM	3340	CZ	ARG	B	54	37.173	13.158	-24.046	1.00	61.98	C
ATOM	3341	NH1	ARG	B	54	37.515	12.373	-23.029	1.00	64.87	N
ATOM	3342	NH2	ARG	B	54	36.228	12.764	-24.890	1.00	62.91	N
ATOM	3343	C	ARG	B	54	42.654	16.724	-25.748	1.00	32.69	C
ATOM	3344	O	ARG	B	54	43.331	15.697	-25.643	1.00	34.25	O
ATOM	3345	N	LYS	B	55	42.825	17.610	-26.730	1.00	27.21	N
ATOM	3346	CA	LYS	B	55	43.661	17.318	-27.894	1.00	27.88	C
ATOM	3347	CB	LYS	B	55	42.817	17.339	-29.174	1.00	32.14	C
ATOM	3348	CG	LYS	B	55	41.777	16.230	-29.255	1.00	37.82	C
ATOM	3349	CD	LYS	B	55	41.049	16.251	-30.587	1.00	42.53	C
ATOM	3350	CE	LYS	B	55	39.633	16.774	-30.422	1.00	47.03	C
ATOM	3351	NZ	LYS	B	55	38.664	16.010	-31.257	1.00	49.45	N
ATOM	3352	C	LYS	B	55	44.862	18.248	-28.049	1.00	27.53	C
ATOM	3353	O	LYS	B	55	45.658	18.081	-28.965	1.00	28.94	O
ATOM	3354	N	MET	B	56	44.992	19.228	-27.161	1.00	27.07	N
ATOM	3355	CA	MET	B	56	46.132	20.134	-27.228	1.00	29.60	C
ATOM	3356	CB	MET	B	56	45.786	21.415	-27.997	1.00	31.09	C
ATOM	3357	CG	MET	B	56	44.578	22.146	-27.495	1.00	31.93	C
ATOM	3358	SD	MET	B	56	44.269	23.678	-28.399	1.00	31.43	S
ATOM	3359	CE	MET	B	56	43.187	24.360	-27.294	1.00	21.31	C
ATOM	3360	C	MET	B	56	46.700	20.463	-25.861	1.00	27.84	C
ATOM	3361	O	MET	B	56	46.023	20.321	-24.845	1.00	30.56	O
ATOM	3362	N	GLU	B	57	47.959	20.890	-25.856	1.00	26.94	N
ATOM	3363	CA	GLU	B	57	48.623	21.331	-24.644	1.00	28.52	C
ATOM	3364	CB	GLU	B	57	50.135	21.146	-24.784	1.00	34.68	C
ATOM	3365	CG	GLU	B	57	50.855	20.691	-23.520	1.00	45.60	C
ATOM	3366	CD	GLU	B	57	50.357	19.364	-22.979	1.00	48.40	C
ATOM	3367	OE1	GLU	B	57	50.687	18.315	-23.575	1.00	52.76	O
ATOM	3368	OE2	GLU	B	57	49.639	19.372	-21.954	1.00	52.02	O
ATOM	3369	C	GLU	B	57	48.264	22.798	-24.406	1.00	25.40	C
ATOM	3370	O	GLU	B	57	48.465	23.642	-25.277	1.00	23.67	O
ATOM	3371	N	ILE	B	58	47.702	23.088	-23.241	1.00	20.81	N
ATOM	3372	CA	ILE	B	58	47.343	24.458	-22.890	1.00	22.40	C
ATOM	3373	CB	ILE	B	58	45.898	24.510	-22.337	1.00	20.66	C
ATOM	3374	CG1	ILE	B	58	44.901	24.116	-23.438	1.00	20.24	C
ATOM	3375	CD1	ILE	B	58	43.480	23.988	-22.968	1.00	25.11	C
ATOM	3376	CG2	ILE	B	58	45.581	25.896	-21.765	1.00	20.94	C
ATOM	3377	C	ILE	B	58	48.351	25.018	-21.890	1.00	24.61	C
ATOM	3378	O	ILE	B	58	48.560	24.436	-20.822	1.00	21.26	O
ATOM	3379	N	TYR	B	59	48.981	26.135	-22.250	1.00	19.63	N
ATOM	3380	CA	TYR	B	59	49.950	26.809	-21.383	1.00	17.24	C
ATOM	3381	CB	TYR	B	59	51.302	26.947	-22.075	1.00	20.03	C
ATOM	3382	CG	TYR	B	59	51.983	25.656	-22.405	1.00	25.16	C
ATOM	3383	CD1	TYR	B	59	52.915	25.092	-21.533	1.00	29.01	C
ATOM	3384	CE1	TYR	B	59	53.554	23.892	-21.845	1.00	28.47	C
ATOM	3385	CZ	TYR	B	59	53.259	23.259	-23.037	1.00	32.39	C
ATOM	3386	OH	TYR	B	59	53.884	22.078	-23.363	1.00	39.74	O

ATOM	3387	CE2	TYR	B	59	52.340	23.804	-23.914	1.00	33.76	C
ATOM	3388	CD2	TYR	B	59	51.713	24.997	-23.600	1.00	31.07	C
ATOM	3389	C	TYR	B	59	49.482	28.202	-21.026	1.00	23.22	C
ATOM	3390	O	TYR	B	59	48.775	28.845	-21.802	1.00	21.39	O
ATOM	3391	N	ARG	B	60	49.900	28.669	-19.855	1.00	20.34	N
ATOM	3392	CA	ARG	B	60	49.746	30.065	-19.501	1.00	22.17	C
ATOM	3393	CB	ARG	B	60	49.583	30.217	-17.993	1.00	26.38	C
ATOM	3394	CG	ARG	B	60	48.163	29.966	-17.503	1.00	38.28	C
ATOM	3395	CD	ARG	B	60	47.926	30.341	-16.046	1.00	44.18	C
ATOM	3396	NE	ARG	B	60	48.760	31.465	-15.616	1.00	51.42	N
ATOM	3397	CZ	ARG	B	60	49.318	31.573	-14.413	1.00	55.15	C
ATOM	3398	NH1	ARG	B	60	50.061	32.634	-14.121	1.00	53.06	N
ATOM	3399	NH2	ARG	B	60	49.135	30.624	-13.499	1.00	55.99	N
ATOM	3400	C	ARG	B	60	51.002	30.788	-19.984	1.00	21.73	C
ATOM	3401	O	ARG	B	60	52.110	30.275	-19.822	1.00	24.70	O
ATOM	3402	N	PRO	B	61	50.840	31.960	-20.596	1.00	19.86	N
ATOM	3403	CA	PRO	B	61	51.997	32.752	-21.013	1.00	16.68	C
ATOM	3404	CB	PRO	B	61	51.367	33.880	-21.840	1.00	16.23	C
ATOM	3405	CG	PRO	B	61	50.004	34.059	-21.237	1.00	16.66	C
ATOM	3406	CD	PRO	B	61	49.565	32.634	-20.916	1.00	16.50	C
ATOM	3407	C	PRO	B	61	52.720	33.324	-19.796	1.00	16.83	C
ATOM	3408	O	PRO	B	61	52.093	33.581	-18.767	1.00	19.68	O
ATOM	3409	N	HIS	B	62	54.031	33.501	-19.917	1.00	18.43	N
ATOM	3410	CA	HIS	B	62	54.783	34.279	-18.943	1.00	21.06	C
ATOM	3411	CB	HIS	B	62	56.282	33.980	-19.059	1.00	18.85	C
ATOM	3412	CG	HIS	B	62	56.895	34.447	-20.346	1.00	22.39	C
ATOM	3413	ND1	HIS	B	62	56.701	33.794	-21.543	1.00	22.41	N
ATOM	3414	CE1	HIS	B	62	57.361	34.422	-22.499	1.00	26.00	C
ATOM	3415	NE2	HIS	B	62	57.974	35.464	-21.966	1.00	24.24	N
ATOM	3416	CD2	HIS	B	62	57.701	35.500	-20.619	1.00	20.17	C
ATOM	3417	C	HIS	B	62	54.522	35.755	-19.243	1.00	21.34	C
ATOM	3418	O	HIS	B	62	54.012	36.095	-20.316	1.00	17.66	O
ATOM	3419	N	LYS	B	63	54.857	36.627	-18.299	1.00	19.72	N
ATOM	3420	CA	LYS	B	63	54.788	38.055	-18.550	1.00	19.52	C
ATOM	3421	CB	LYS	B	63	54.613	38.823	-17.238	1.00	24.85	C
ATOM	3422	CG	LYS	B	63	53.202	38.735	-16.647	1.00	29.04	C
ATOM	3423	CD	LYS	B	63	53.061	39.574	-15.386	1.00	33.47	C
ATOM	3424	CE	LYS	B	63	53.798	38.950	-14.207	1.00	42.07	C
ATOM	3425	NZ	LYS	B	63	52.875	38.583	-13.088	1.00	47.76	N
ATOM	3426	C	LYS	B	63	56.075	38.466	-19.255	1.00	21.13	C
ATOM	3427	O	LYS	B	63	57.138	38.498	-18.636	1.00	21.15	O
ATOM	3428	N	ALA	B	64	55.986	38.742	-20.555	1.00	21.04	N
ATOM	3429	CA	ALA	B	64	57.154	39.150	-21.336	1.00	21.09	C
ATOM	3430	CB	ALA	B	64	56.729	39.604	-22.736	1.00	19.54	C
ATOM	3431	C	ALA	B	64	57.933	40.258	-20.622	1.00	18.19	C
ATOM	3432	O	ALA	B	64	57.342	41.205	-20.112	1.00	18.95	O
ATOM	3433	N	THR	B	65	59.257	40.131	-20.578	1.00	18.50	N
ATOM	3434	CA	THR	B	65	60.075	41.084	-19.831	1.00	22.79	C
ATOM	3435	CB	THR	B	65	61.390	40.428	-19.344	1.00	24.58	C
ATOM	3436	OG1	THR	B	65	62.113	39.914	-20.465	1.00	25.80	O
ATOM	3437	CG2	THR	B	65	61.106	39.187	-18.507	1.00	24.76	C
ATOM	3438	C	THR	B	65	60.401	42.311	-20.673	1.00	24.47	C
ATOM	3439	O	THR	B	65	60.291	42.277	-21.892	1.00	20.57	O
ATOM	3440	N	ALA	B	66	60.813	43.387	-20.009	1.00	26.12	N
ATOM	3441	CA	ALA	B	66	61.344	44.558	-20.701	1.00	27.77	C
ATOM	3442	CB	ALA	B	66	61.762	45.632	-19.695	1.00	27.63	C
ATOM	3443	C	ALA	B	66	62.510	44.166	-21.616	1.00	26.98	C
ATOM	3444	O	ALA	B	66	62.609	44.656	-22.742	1.00	30.33	O
ATOM	3445	N	GLU	B	67	63.366	43.259	-21.145	1.00	24.08	N
ATOM	3446	CA	GLU	B	67	64.467	42.733	-21.952	1.00	28.07	C
ATOM	3447	CB	GLU	B	67	65.407	41.849	-21.115	1.00	37.69	C
ATOM	3448	CG	GLU	B	67	65.217	40.347	-21.266	1.00	48.38	C
ATOM	3449	CD	GLU	B	67	66.474	39.631	-21.720	1.00	54.67	C

ATOM	3450	OE1	GLU	B	67	66.492	39.129	-22.865	1.00	56.59	O
ATOM	3451	OE2	GLU	B	67	67.441	39.561	-20.929	1.00	58.10	O
ATOM	3452	C	GLU	B	67	63.989	42.028	-23.229	1.00	26.99	C
ATOM	3453	O	GLU	B	67	64.609	42.170	-24.277	1.00	25.93	O
ATOM	3454	N	GLU	B	68	62.881	41.290	-23.146	1.00	23.66	N
ATOM	3455	CA	GLU	B	68	62.310	40.638	-24.322	1.00	23.59	C
ATOM	3456	CB	GLU	B	68	61.200	39.658	-23.923	1.00	25.21	C
ATOM	3457	CG	GLU	B	68	61.695	38.325	-23.384	1.00	33.01	C
ATOM	3458	CD	GLU	B	68	60.569	37.475	-22.822	1.00	34.12	C
ATOM	3459	OE1	GLU	B	68	59.944	36.729	-23.603	1.00	37.57	O
ATOM	3460	OE2	GLU	B	68	60.302	37.562	-21.607	1.00	35.49	O
ATOM	3461	C	GLU	B	68	61.762	41.677	-25.302	1.00	18.20	C
ATOM	3462	O	GLU	B	68	62.010	41.593	-26.497	1.00	21.51	O
ATOM	3463	N	MET	B	69	61.026	42.655	-24.784	1.00	20.38	N
ATOM	3464	CA	MET	B	69	60.372	43.661	-25.631	1.00	20.01	C
ATOM	3465	CB	MET	B	69	59.373	44.484	-24.828	1.00	19.58	C
ATOM	3466	CG	MET	B	69	58.209	43.670	-24.293	1.00	20.19	C
ATOM	3467	SD	MET	B	69	57.113	44.696	-23.329	1.00	26.93	S
ATOM	3468	CE	MET	B	69	55.888	43.490	-22.897	1.00	25.63	C
ATOM	3469	C	MET	B	69	61.359	44.588	-26.330	1.00	23.56	C
ATOM	3470	O	MET	B	69	61.112	45.011	-27.466	1.00	20.41	O
ATOM	3471	N	THR	B	70	62.473	44.900	-25.663	1.00	20.42	N
ATOM	3472	CA	THR	B	70	63.462	45.812	-26.250	1.00	23.60	C
ATOM	3473	CB	THR	B	70	64.304	46.566	-25.179	1.00	22.88	C
ATOM	3474	OG1	THR	B	70	64.913	45.626	-24.292	1.00	24.59	O
ATOM	3475	CG2	THR	B	70	63.422	47.424	-24.288	1.00	23.08	C
ATOM	3476	C	THR	B	70	64.379	45.143	-27.268	1.00	23.91	C
ATOM	3477	O	THR	B	70	65.309	45.776	-27.772	1.00	25.37	O
ATOM	3478	N	LYS	B	71	64.128	43.870	-27.569	1.00	20.75	N
ATOM	3479	CA	LYS	B	71	64.771	43.227	-28.712	1.00	23.78	C
ATOM	3480	CB	LYS	B	71	64.467	41.720	-28.777	1.00	26.41	C
ATOM	3481	CG	BLYS	B	71	64.977	40.913	-27.576	0.35	27.69	C
ATOM	3482	CG	ALYS	B	71	65.260	40.877	-27.781	0.65	34.84	C
ATOM	3483	CD	BLYS	B	71	66.500	40.874	-27.505	0.35	27.54	C
ATOM	3484	CD	ALYS	B	71	66.472	40.228	-28.440	0.65	39.51	C
ATOM	3485	CE	BLYS	B	71	66.970	40.010	-26.344	0.35	28.95	C
ATOM	3486	CE	ALYS	B	71	66.942	39.003	-27.664	0.65	42.90	C
ATOM	3487	NZ	BLYS	B	71	67.314	40.828	-25.150	0.35	28.38	N
ATOM	3488	NZ	ALYS	B	71	66.135	37.786	-27.973	0.65	43.44	N
ATOM	3489	C	LYS	B	71	64.333	43.924	-29.998	1.00	23.39	C
ATOM	3490	O	LYS	B	71	65.031	43.871	-31.012	1.00	27.51	O
ATOM	3491	N	TYR	B	72	63.173	44.578	-29.943	1.00	22.08	N
ATOM	3492	CA	TYR	B	72	62.691	45.391	-31.054	1.00	21.13	C
ATOM	3493	CB	TYR	B	72	61.450	44.765	-31.700	1.00	22.47	C
ATOM	3494	CG	TYR	B	72	60.928	45.609	-32.837	1.00	21.07	C
ATOM	3495	CD1	TYR	B	72	59.652	46.171	-32.787	1.00	24.78	C
ATOM	3496	CE1	TYR	B	72	59.175	46.963	-33.836	1.00	26.14	C
ATOM	3497	CZ	TYR	B	72	59.987	47.201	-34.931	1.00	27.13	C
ATOM	3498	OH	TYR	B	72	59.530	47.974	-35.975	1.00	30.14	O
ATOM	3499	CE2	TYR	B	72	61.261	46.658	-34.998	1.00	26.15	C
ATOM	3500	CD2	TYR	B	72	61.726	45.870	-33.951	1.00	24.21	C
ATOM	3501	C	TYR	B	72	62.391	46.847	-30.670	1.00	20.76	C
ATOM	3502	O	TYR	B	72	62.883	47.786	-31.313	1.00	21.88	O
ATOM	3503	N	HIS	B	73	61.556	47.024	-29.652	1.00	17.63	N
ATOM	3504	CA	HIS	B	73	61.102	48.343	-29.228	1.00	16.93	C
ATOM	3505	CB	HIS	B	73	59.898	48.217	-28.306	1.00	16.05	C
ATOM	3506	CG	HIS	B	73	58.681	47.692	-28.993	1.00	18.71	C
ATOM	3507	ND1	HIS	B	73	57.883	48.485	-29.788	1.00	17.52	N
ATOM	3508	CE1	HIS	B	73	56.893	47.756	-30.276	1.00	17.77	C
ATOM	3509	NE2	HIS	B	73	57.026	46.521	-29.830	1.00	17.71	N
ATOM	3510	CD2	HIS	B	73	58.138	46.452	-29.025	1.00	18.64	C
ATOM	3511	C	HIS	B	73	62.198	49.128	-28.527	1.00	20.19	C
ATOM	3512	O	HIS	B	73	63.105	48.554	-27.939	1.00	19.93	O

ATOM	3513	N	SER	B	74	62.100	50.447	-28.595	1.00	19.75	N
ATOM	3514	CA	SER	B	74	63.065	51.305	-27.919	1.00	24.58	C
ATOM	3515	CB	SER	B	74	62.972	52.743	-28.449	1.00	27.25	C
ATOM	3516	OG	SER	B	74	61.854	53.429	-27.913	1.00	29.10	O
ATOM	3517	C	SER	B	74	62.899	51.243	-26.397	1.00	25.32	C
ATOM	3518	O	SER	B	74	61.786	51.098	-25.886	1.00	21.76	O
ATOM	3519	N	ASP	B	75	64.030	51.323	-25.693	1.00	25.20	N
ATOM	3520	CA	ASP	B	75	64.095	51.336	-24.231	1.00	31.82	C
ATOM	3521	CB	ASP	B	75	65.521	51.699	-23.788	1.00	39.80	C
ATOM	3522	CG	ASP	B	75	66.362	50.489	-23.442	1.00	46.47	C
ATOM	3523	OD1	ASP	B	75	67.238	50.621	-22.562	1.00	52.62	O
ATOM	3524	OD2	ASP	B	75	66.234	49.374	-23.990	1.00	50.68	O
ATOM	3525	C	ASP	B	75	63.151	52.370	-23.646	1.00	27.40	C
ATOM	3526	O	ASP	B	75	62.435	52.105	-22.676	1.00	25.69	O
ATOM	3527	N	GLU	B	76	63.175	53.556	-24.246	1.00	24.85	N
ATOM	3528	CA	GLU	B	76	62.421	54.704	-23.765	1.00	26.81	C
ATOM	3529	CB	GLU	B	76	62.841	55.968	-24.530	1.00	28.67	C
ATOM	3530	CG	GLU	B	76	64.358	56.150	-24.661	1.00	37.57	C
ATOM	3531	CD	GLU	B	76	64.920	55.651	-25.995	1.00	41.29	C
ATOM	3532	OE1	GLU	B	76	65.087	56.477	-26.924	1.00	41.83	O
ATOM	3533	OE2	GLU	B	76	65.211	54.435	-26.118	1.00	31.65	O
ATOM	3534	C	GLU	B	76	60.912	54.463	-23.870	1.00	25.40	C
ATOM	3535	O	GLU	B	76	60.165	54.802	-22.953	1.00	24.36	O
ATOM	3536	N	TYR	B	77	60.482	53.856	-24.978	1.00	22.01	N
ATOM	3537	CA	TYR	B	77	59.068	53.537	-25.187	1.00	21.94	C
ATOM	3538	CB	TYR	B	77	58.825	53.076	-26.630	1.00	20.32	C
ATOM	3539	CG	TYR	B	77	57.403	52.620	-26.928	1.00	19.95	C
ATOM	3540	CD1	TYR	B	77	56.305	53.392	-26.557	1.00	18.65	C
ATOM	3541	CE1	TYR	B	77	54.993	52.972	-26.826	1.00	20.24	C
ATOM	3542	CZ	TYR	B	77	54.787	51.765	-27.484	1.00	19.44	C
ATOM	3543	OH	TYR	B	77	53.505	51.353	-27.752	1.00	16.65	O
ATOM	3544	CE2	TYR	B	77	55.866	50.976	-27.859	1.00	17.99	C
ATOM	3545	CD2	TYR	B	77	57.167	51.411	-27.583	1.00	19.29	C
ATOM	3546	C	TYR	B	77	58.576	52.493	-24.172	1.00	19.36	C
ATOM	3547	O	TYR	B	77	57.529	52.668	-23.550	1.00	20.98	O
ATOM	3548	N	ILE	B	78	59.347	51.427	-23.999	1.00	19.81	N
ATOM	3549	CA	ILE	B	78	58.987	50.370	-23.051	1.00	19.78	C
ATOM	3550	CB	ILE	B	78	59.921	49.143	-23.215	1.00	18.93	C
ATOM	3551	CG1	ILE	B	78	59.768	48.522	-24.617	1.00	20.13	C
ATOM	3552	CD1	ILE	B	78	58.291	48.337	-25.099	1.00	19.21	C
ATOM	3553	CG2	ILE	B	78	59.661	48.087	-22.120	1.00	21.07	C
ATOM	3554	C	ILE	B	78	58.952	50.900	-21.611	1.00	22.72	C
ATOM	3555	O	ILE	B	78	58.036	50.574	-20.844	1.00	22.35	O
ATOM	3556	N	LYS	B	79	59.927	51.738	-21.256	1.00	23.14	N
ATOM	3557	CA	LYS	B	79	59.931	52.389	-19.942	1.00	25.94	C
ATOM	3558	CB	LYS	B	79	61.167	53.284	-19.771	1.00	27.71	C
ATOM	3559	CG	LYS	B	79	61.400	53.741	-18.333	1.00	37.39	C
ATOM	3560	CD	LYS	B	79	62.488	54.804	-18.256	1.00	42.72	C
ATOM	3561	CE	LYS	B	79	62.485	55.501	-16.901	1.00	45.68	C
ATOM	3562	NZ	LYS	B	79	63.199	56.812	-16.967	1.00	50.52	N
ATOM	3563	C	LYS	B	79	58.654	53.203	-19.736	1.00	22.38	C
ATOM	3564	O	LYS	B	79	58.063	53.181	-18.656	1.00	23.65	O
ATOM	3565	N	PHE	B	80	58.235	53.916	-20.780	1.00	23.07	N
ATOM	3566	CA	PHE	B	80	57.013	54.704	-20.726	1.00	21.95	C
ATOM	3567	CB	PHE	B	80	56.850	55.540	-21.995	1.00	22.14	C
ATOM	3568	CG	PHE	B	80	55.474	56.077	-22.181	1.00	22.61	C
ATOM	3569	CD1	PHE	B	80	54.597	55.484	-23.085	1.00	21.50	C
ATOM	3570	CE1	PHE	B	80	53.305	55.977	-23.245	1.00	21.26	C
ATOM	3571	CZ	PHE	B	80	52.886	57.066	-22.493	1.00	24.11	C
ATOM	3572	CE2	PHE	B	80	53.749	57.656	-21.590	1.00	23.49	C
ATOM	3573	CD2	PHE	B	80	55.035	57.162	-21.433	1.00	24.45	C
ATOM	3574	C	PHE	B	80	55.773	53.830	-20.490	1.00	21.24	C
ATOM	3575	O	PHE	B	80	54.938	54.150	-19.642	1.00	22.04	O

ATOM	3576	N	LEU	B	81	55.672	52.719	-21.219	1.00	22.25	N
ATOM	3577	CA	LEU	B	81	54.528	51.814	-21.074	1.00	20.38	C
ATOM	3578	CB	LEU	B	81	54.590	50.685	-22.111	1.00	18.71	C
ATOM	3579	CG	LEU	B	81	54.341	51.003	-23.588	1.00	21.37	C
ATOM	3580	CD1	LEU	B	81	54.428	49.715	-24.407	1.00	18.65	C
ATOM	3581	CD2	LEU	B	81	52.995	51.711	-23.837	1.00	19.80	C
ATOM	3582	C	LEU	B	81	54.456	51.230	-19.668	1.00	24.31	C
ATOM	3583	O	LEU	B	81	53.367	51.015	-19.132	1.00	22.50	O
ATOM	3584	N	ARG	B	82	55.629	50.993	-19.081	1.00	23.28	N
ATOM	3585	CA	ARG	B	82	55.755	50.451	-17.731	1.00	28.34	C
ATOM	3586	CB	ARG	B	82	57.180	49.918	-17.514	1.00	30.66	C
ATOM	3587	CG	ARG	B	82	57.374	49.128	-16.217	1.00	41.46	C
ATOM	3588	CD	ARG	B	82	58.251	47.893	-16.348	1.00	45.54	C
ATOM	3589	NE	ARG	B	82	59.652	48.227	-16.597	1.00	50.40	N
ATOM	3590	CZ	ARG	B	82	60.637	47.337	-16.666	1.00	51.99	C
ATOM	3591	NH1	ARG	B	82	61.877	47.745	-16.899	1.00	49.38	N
ATOM	3592	NH2	ARG	B	82	60.388	46.039	-16.506	1.00	51.90	N
ATOM	3593	C	ARG	B	82	55.389	51.474	-16.649	1.00	27.54	C
ATOM	3594	O	ARG	B	82	55.101	51.099	-15.516	1.00	30.28	O
ATOM	3595	N	SER	B	83	55.380	52.755	-17.012	1.00	28.13	N
ATOM	3596	CA	SER	B	83	55.181	53.848	-16.054	1.00	28.02	C
ATOM	3597	CB	SER	B	83	56.214	54.957	-16.295	1.00	30.12	C
ATOM	3598	OG	SER	B	83	57.539	54.463	-16.203	1.00	33.57	O
ATOM	3599	C	SER	B	83	53.786	54.463	-16.093	1.00	30.36	C
ATOM	3600	O	SER	B	83	53.259	54.883	-15.054	1.00	27.73	O
ATOM	3601	N	ILE	B	84	53.205	54.531	-17.292	1.00	26.01	N
ATOM	3602	CA	ILE	B	84	51.955	55.250	-17.523	1.00	27.19	C
ATOM	3603	CB	ILE	B	84	51.723	55.515	-19.058	1.00	27.26	C
ATOM	3604	CG1	ILE	B	84	50.584	56.514	-19.280	1.00	28.02	C
ATOM	3605	CD1	ILE	B	84	50.993	57.965	-19.159	1.00	30.20	C
ATOM	3606	CG2	ILE	B	84	51.445	54.219	-19.830	1.00	24.93	C
ATOM	3607	C	ILE	B	84	50.741	54.589	-16.858	1.00	29.56	C
ATOM	3608	O	ILE	B	84	50.505	53.391	-17.009	1.00	28.40	O
ATOM	3609	N	ARG	B	85	49.989	55.387	-16.106	1.00	30.15	N
ATOM	3610	CA	ARG	B	85	48.783	54.916	-15.428	1.00	31.78	C
ATOM	3611	CB	ARG	B	85	49.094	54.614	-13.954	1.00	35.34	C
ATOM	3612	CG	ARG	B	85	50.009	53.416	-13.742	1.00	41.11	C
ATOM	3613	CD	ARG	B	85	50.324	53.111	-12.294	1.00	47.83	C
ATOM	3614	NE	ARG	B	85	51.541	53.792	-11.859	1.00	54.73	N
ATOM	3615	CZ	ARG	B	85	51.567	54.817	-11.015	1.00	56.25	C
ATOM	3616	NH1	ARG	B	85	52.725	55.371	-10.682	1.00	57.28	N
ATOM	3617	NH2	ARG	B	85	50.441	55.290	-10.499	1.00	56.82	N
ATOM	3618	C	ARG	B	85	47.702	55.994	-15.567	1.00	31.26	C
ATOM	3619	O	ARG	B	85	48.034	57.149	-15.841	1.00	32.69	O
ATOM	3620	N	PRO	B	86	46.420	55.642	-15.421	1.00	32.32	N
ATOM	3621	CA	PRO	B	86	45.352	56.651	-15.490	1.00	34.00	C
ATOM	3622	CB	PRO	B	86	44.092	55.854	-15.142	1.00	35.01	C
ATOM	3623	CG	PRO	B	86	44.417	54.466	-15.558	1.00	32.36	C
ATOM	3624	CD	PRO	B	86	45.874	54.287	-15.214	1.00	32.80	C
ATOM	3625	C	PRO	B	86	45.558	57.800	-14.497	1.00	36.79	C
ATOM	3626	O	PRO	B	86	45.228	58.936	-14.826	1.00	37.86	O
ATOM	3627	N	ASP	B	87	46.129	57.505	-13.330	1.00	38.39	N
ATOM	3628	CA	ASP	B	87	46.309	58.500	-12.270	1.00	43.54	C
ATOM	3629	CB	ASP	B	87	46.376	57.812	-10.900	1.00	45.90	C
ATOM	3630	CG	ASP	B	87	47.540	56.849	-10.787	1.00	49.62	C
ATOM	3631	OD1	ASP	B	87	47.363	55.653	-11.099	1.00	53.63	O
ATOM	3632	OD2	ASP	B	87	48.672	57.200	-10.401	1.00	52.23	O
ATOM	3633	C	ASP	B	87	47.504	59.455	-12.457	1.00	43.84	C
ATOM	3634	O	ASP	B	87	47.589	60.472	-11.764	1.00	44.37	O
ATOM	3635	N	ASN	B	88	48.417	59.139	-13.376	1.00	40.42	N
ATOM	3636	CA	ASN	B	88	49.554	60.026	-13.657	1.00	38.99	C
ATOM	3637	CB	ASN	B	88	50.884	59.371	-13.242	1.00	38.63	C
ATOM	3638	CG	ASN	B	88	51.231	58.137	-14.074	1.00	36.47	C

ATOM	3639	OD1	ASN	B	88	50.714	57.940	-15.173	1.00	33.52	O
ATOM	3640	ND2	ASN	B	88	52.123	57.309	-13.546	1.00	33.11	N
ATOM	3641	C	ASN	B	88	49.631	60.565	-15.094	1.00	39.39	C
ATOM	3642	O	ASN	B	88	50.683	61.039	-15.533	1.00	39.80	O
ATOM	3643	N	MET	B	89	48.514	60.495	-15.814	1.00	38.90	N
ATOM	3644	CA	MET	B	89	48.441	60.938	-17.208	1.00	43.18	C
ATOM	3645	CB	MET	B	89	47.044	60.688	-17.771	1.00	45.41	C
ATOM	3646	CG	MET	B	89	46.848	59.310	-18.358	1.00	43.97	C
ATOM	3647	SD	MET	B	89	45.109	58.992	-18.684	1.00	46.76	S
ATOM	3648	CE	MET	B	89	44.900	59.748	-20.265	1.00	47.46	C
ATOM	3649	C	MET	B	89	48.812	62.404	-17.418	1.00	45.70	C
ATOM	3650	O	MET	B	89	49.435	62.747	-18.425	1.00	47.55	O
ATOM	3651	N	SER	B	90	48.423	63.262	-16.474	1.00	47.30	N
ATOM	3652	CA	SER	B	90	48.698	64.697	-16.564	1.00	48.59	C
ATOM	3653	CB	SER	B	90	47.984	65.458	-15.443	1.00	51.96	C
ATOM	3654	OG	SER	B	90	48.370	64.968	-14.170	1.00	53.49	O
ATOM	3655	C	SER	B	90	50.198	64.994	-16.542	1.00	47.56	C
ATOM	3656	O	SER	B	90	50.670	65.875	-17.261	1.00	50.40	O
ATOM	3657	N	GLU	B	91	50.938	64.240	-15.731	1.00	45.97	N
ATOM	3658	CA	GLU	B	91	52.391	64.378	-15.628	1.00	46.68	C
ATOM	3659	CB	GLU	B	91	52.911	63.613	-14.403	1.00	52.70	C
ATOM	3660	CG	GLU	B	91	52.508	64.225	-13.067	1.00	59.06	C
ATOM	3661	CD	GLU	B	91	52.581	63.239	-11.913	1.00	63.48	C
ATOM	3662	OE1	GLU	B	91	53.463	63.408	-11.041	1.00	65.35	O
ATOM	3663	OE2	GLU	B	91	51.754	62.302	-11.866	1.00	64.70	O
ATOM	3664	C	GLU	B	91	53.134	63.913	-16.887	1.00	45.33	C
ATOM	3665	O	GLU	B	91	54.260	64.349	-17.145	1.00	44.94	O
ATOM	3666	N	TYR	B	92	52.498	63.042	-17.669	1.00	40.26	N
ATOM	3667	CA	TYR	B	92	53.149	62.391	-18.806	1.00	38.09	C
ATOM	3668	CB	TYR	B	92	53.011	60.873	-18.671	1.00	37.64	C
ATOM	3669	CG	TYR	B	92	54.007	60.218	-17.754	1.00	37.03	C
ATOM	3670	CD1	TYR	B	92	53.664	59.897	-16.442	1.00	36.95	C
ATOM	3671	CE1	TYR	B	92	54.580	59.284	-15.589	1.00	38.80	C
ATOM	3672	CZ	TYR	B	92	55.850	58.984	-16.052	1.00	39.58	C
ATOM	3673	OH	TYR	B	92	56.756	58.379	-15.215	1.00	41.35	O
ATOM	3674	CE2	TYR	B	92	56.215	59.290	-17.355	1.00	39.34	C
ATOM	3675	CD2	TYR	B	92	55.292	59.904	-18.199	1.00	39.18	C
ATOM	3676	C	TYR	B	92	52.595	62.808	-20.172	1.00	39.81	C
ATOM	3677	O	TYR	B	92	52.831	62.115	-21.171	1.00	37.66	O
ATOM	3678	N	SER	B	93	51.875	63.930	-20.220	1.00	38.31	N
ATOM	3679	CA	SER	B	93	51.174	64.363	-21.437	1.00	40.95	C
ATOM	3680	CB	SER	B	93	50.385	65.658	-21.193	1.00	42.77	C
ATOM	3681	OG	SER	B	93	51.243	66.786	-21.164	1.00	46.96	O
ATOM	3682	C	SER	B	93	52.073	64.493	-22.675	1.00	38.73	C
ATOM	3683	O	SER	B	93	51.666	64.128	-23.777	1.00	38.49	O
ATOM	3684	N	LYS	B	94	53.288	65.008	-22.486	1.00	38.57	N
ATOM	3685	CA	LYS	B	94	54.257	65.139	-23.577	1.00	39.39	C
ATOM	3686	CB	LYS	B	94	55.458	65.985	-23.142	1.00	46.48	C
ATOM	3687	CG	LYS	B	94	55.192	67.489	-23.144	1.00	53.56	C
ATOM	3688	CD	LYS	B	94	56.003	68.204	-24.221	1.00	58.64	C
ATOM	3689	CE	LYS	B	94	55.742	69.710	-24.202	1.00	61.26	C
ATOM	3690	NZ	LYS	B	94	54.833	70.136	-25.312	1.00	61.77	N
ATOM	3691	C	LYS	B	94	54.731	63.777	-24.088	1.00	35.28	C
ATOM	3692	O	LYS	B	94	54.956	63.593	-25.286	1.00	31.75	O
ATOM	3693	N	GLN	B	95	54.879	62.826	-23.173	1.00	28.67	N
ATOM	3694	CA	GLN	B	95	55.291	61.476	-23.543	1.00	31.51	C
ATOM	3695	CB	GLN	B	95	55.869	60.733	-22.340	1.00	35.30	C
ATOM	3696	CG	GLN	B	95	57.329	61.096	-22.061	1.00	42.05	C
ATOM	3697	CD	GLN	B	95	57.940	60.299	-20.923	1.00	47.50	C
ATOM	3698	OE1	GLN	B	95	58.234	59.110	-21.072	1.00	49.63	O
ATOM	3699	NE2	GLN	B	95	58.146	60.956	-19.786	1.00	50.71	N
ATOM	3700	C	GLN	B	95	54.143	60.702	-24.191	1.00	26.02	C
ATOM	3701	O	GLN	B	95	54.362	59.925	-25.116	1.00	26.70	O

ATOM	3702	N	MET	B	96	52.920	60.935	-23.721	1.00	24.97	N
ATOM	3703	CA	MET	B	96	51.735	60.358	-24.356	1.00	28.04	C
ATOM	3704	CB	MET	B	96	50.470	60.759	-23.602	1.00	29.05	C
ATOM	3705	CG	MET	B	96	50.232	59.958	-22.324	1.00	30.36	C
ATOM	3706	SD	MET	B	96	48.837	60.567	-21.358	1.00	35.97	S
ATOM	3707	CE	MET	B	96	47.507	60.511	-22.579	1.00	37.95	C
ATOM	3708	C	MET	B	96	51.627	60.754	-25.834	1.00	30.20	C
ATOM	3709	O	MET	B	96	51.266	59.933	-26.679	1.00	26.92	O
ATOM	3710	N	GLN	B	97	51.950	62.011	-26.138	1.00	28.90	N
ATOM	3711	CA	GLN	B	97	51.916	62.504	-27.510	1.00	28.29	C
ATOM	3712	CB	GLN	B	97	52.020	64.034	-27.538	1.00	34.33	C
ATOM	3713	CG	GLN	B	97	50.662	64.725	-27.557	1.00	43.73	C
ATOM	3714	CD	GLN	B	97	50.763	66.242	-27.501	1.00	49.73	C
ATOM	3715	OE1	GLN	B	97	51.303	66.870	-28.417	1.00	49.03	O
ATOM	3716	NE2	GLN	B	97	50.235	66.833	-26.432	1.00	51.93	N
ATOM	3717	C	GLN	B	97	53.014	61.875	-28.363	1.00	27.81	C
ATOM	3718	O	GLN	B	97	52.758	61.442	-29.492	1.00	26.49	O
ATOM	3719	N	ARG	B	98	54.229	61.827	-27.815	1.00	21.97	N
ATOM	3720	CA	ARG	B	98	55.379	61.239	-28.495	1.00	28.18	C
ATOM	3721	CB	ARG	B	98	56.645	61.399	-27.651	1.00	27.45	C
ATOM	3722	CG	ARG	B	98	57.941	61.284	-28.449	1.00	39.21	C
ATOM	3723	CD	ARG	B	98	58.900	60.206	-27.962	1.00	46.95	C
ATOM	3724	NE	ARG	B	98	59.591	60.579	-26.725	1.00	54.26	N
ATOM	3725	CZ	ARG	B	98	60.880	60.344	-26.468	1.00	57.63	C
ATOM	3726	NH1	ARG	B	98	61.399	60.724	-25.306	1.00	57.98	N
ATOM	3727	NH2	ARG	B	98	61.655	59.734	-27.362	1.00	57.97	N
ATOM	3728	C	ARG	B	98	55.168	59.757	-28.822	1.00	25.70	C
ATOM	3729	O	ARG	B	98	55.491	59.308	-29.923	1.00	22.83	O
ATOM	3730	N	PHE	B	99	54.623	59.013	-27.866	1.00	23.87	N
ATOM	3731	CA	PHE	B	99	54.465	57.564	-28.018	1.00	24.00	C
ATOM	3732	CB	PHE	B	99	54.814	56.861	-26.701	1.00	22.59	C
ATOM	3733	CG	PHE	B	99	56.249	57.070	-26.263	1.00	19.84	C
ATOM	3734	CD1	PHE	B	99	57.303	56.719	-27.099	1.00	24.39	C
ATOM	3735	CE1	PHE	B	99	58.631	56.910	-26.700	1.00	24.66	C
ATOM	3736	CZ	PHE	B	99	58.905	57.459	-25.460	1.00	22.67	C
ATOM	3737	CE2	PHE	B	99	57.861	57.813	-24.617	1.00	22.78	C
ATOM	3738	CD2	PHE	B	99	56.542	57.617	-25.020	1.00	19.47	C
ATOM	3739	C	PHE	B	99	53.083	57.161	-28.541	1.00	26.48	C
ATOM	3740	O	PHE	B	99	52.764	55.968	-28.633	1.00	26.29	O
ATOM	3741	N	ASN	B	100	52.279	58.163	-28.895	1.00	23.02	N
ATOM	3742	CA	ASN	B	100	50.948	57.972	-29.481	1.00	27.67	C
ATOM	3743	CB	ASN	B	100	51.056	57.379	-30.899	1.00	26.88	C
ATOM	3744	CG	ASN	B	100	49.788	57.566	-31.714	1.00	33.11	C
ATOM	3745	OD1	ASN	B	100	49.134	58.604	-31.637	1.00	36.56	O
ATOM	3746	ND2	ASN	B	100	49.434	56.551	-32.502	1.00	30.74	N
ATOM	3747	C	ASN	B	100	49.990	57.158	-28.606	1.00	25.82	C
ATOM	3748	O	ASN	B	100	49.220	56.337	-29.103	1.00	25.22	O
ATOM	3749	N	VAL	B	101	50.046	57.395	-27.300	1.00	25.74	N
ATOM	3750	CA	VAL	B	101	49.158	56.728	-26.356	1.00	28.70	C
ATOM	3751	CB	VAL	B	101	49.966	56.020	-25.240	1.00	26.89	C
ATOM	3752	CG1	VAL	B	101	49.060	55.471	-24.146	1.00	29.25	C
ATOM	3753	CG2	VAL	B	101	50.811	54.887	-25.823	1.00	28.28	C
ATOM	3754	C	VAL	B	101	48.161	57.746	-25.790	1.00	32.53	C
ATOM	3755	O	VAL	B	101	48.534	58.878	-25.472	1.00	33.68	O
ATOM	3756	N	GLY	B	102	46.892	57.352	-25.699	1.00	30.69	N
ATOM	3757	CA	GLY	B	102	45.874	58.194	-25.093	1.00	33.26	C
ATOM	3758	C	GLY	B	102	44.616	58.422	-25.913	1.00	36.91	C
ATOM	3759	O	GLY	B	102	43.634	58.950	-25.388	1.00	37.99	O
ATOM	3760	N	GLU	B	103	44.643	58.039	-27.190	1.00	38.27	N
ATOM	3761	CA	GLU	B	103	43.477	58.159	-28.070	1.00	39.23	C
ATOM	3762	CB	GLU	B	103	43.797	59.055	-29.275	1.00	47.00	C
ATOM	3763	CG	GLU	B	103	42.574	59.611	-29.995	1.00	55.49	C
ATOM	3764	CD	GLU	B	103	42.527	61.131	-30.001	1.00	60.39	C

ATOM	3765	OE1	GLU	B	103	43.382	61.757	-30.670	1.00	62.33	O
ATOM	3766	OE2	GLU	B	103	41.629	61.699	-29.340	1.00	62.58	O
ATOM	3767	C	GLU	B	103	42.979	56.773	-28.508	1.00	35.60	C
ATOM	3768	O	GLU	B	103	42.297	56.086	-27.743	1.00	35.59	O
ATOM	3769	N	ASP	B	104	43.332	56.365	-29.726	1.00	32.63	N
ATOM	3770	CA	ASP	B	104	43.011	55.031	-30.230	1.00	33.21	C
ATOM	3771	CB	ASP	B	104	43.509	54.865	-31.669	1.00	39.42	C
ATOM	3772	CG	ASP	B	104	42.546	55.441	-32.700	1.00	44.91	C
ATOM	3773	OD1	ASP	B	104	41.536	56.070	-32.311	1.00	47.54	O
ATOM	3774	OD2	ASP	B	104	42.727	55.313	-33.931	1.00	48.52	O
ATOM	3775	C	ASP	B	104	43.635	53.957	-29.349	1.00	27.18	C
ATOM	3776	O	ASP	B	104	43.079	52.869	-29.198	1.00	27.61	O
ATOM	3777	N	CYS	B	105	44.801	54.277	-28.788	1.00	22.25	N
ATOM	3778	CA	CYS	B	105	45.506	53.408	-27.848	1.00	22.86	C
ATOM	3779	CB	CYS	B	105	46.944	53.167	-28.325	1.00	22.68	C
ATOM	3780	SG	CYS	B	105	47.087	52.658	-30.058	1.00	24.45	S
ATOM	3781	C	CYS	B	105	45.492	54.049	-26.453	1.00	23.09	C
ATOM	3782	O	CYS	B	105	46.458	54.716	-26.057	1.00	21.09	O
ATOM	3783	N	PRO	B	106	44.402	53.834	-25.711	1.00	22.20	N
ATOM	3784	CA	PRO	B	106	44.182	54.517	-24.432	1.00	22.98	C
ATOM	3785	CB	PRO	B	106	42.733	54.156	-24.099	1.00	24.50	C
ATOM	3786	CG	PRO	B	106	42.536	52.822	-24.740	1.00	23.13	C
ATOM	3787	CD	PRO	B	106	43.292	52.915	-26.030	1.00	22.99	C
ATOM	3788	C	PRO	B	106	45.098	54.017	-23.329	1.00	26.78	C
ATOM	3789	O	PRO	B	106	45.698	52.938	-23.443	1.00	22.39	O
ATOM	3790	N	VAL	B	107	45.217	54.824	-22.280	1.00	24.05	N
ATOM	3791	CA	VAL	B	107	45.806	54.382	-21.030	1.00	25.91	C
ATOM	3792	CB	VAL	B	107	46.393	55.563	-20.224	1.00	29.94	C
ATOM	3793	CG1	VAL	B	107	47.055	55.060	-18.938	1.00	29.48	C
ATOM	3794	CG2	VAL	B	107	47.388	56.354	-21.071	1.00	26.91	C
ATOM	3795	C	VAL	B	107	44.698	53.720	-20.221	1.00	28.65	C
ATOM	3796	O	VAL	B	107	43.628	54.301	-20.028	1.00	32.50	O
ATOM	3797	N	PHE	B	108	44.946	52.499	-19.767	1.00	26.52	N
ATOM	3798	CA	PHE	B	108	44.020	51.834	-18.858	1.00	27.03	C
ATOM	3799	CB	PHE	B	108	43.036	50.915	-19.610	1.00	27.04	C
ATOM	3800	CG	PHE	B	108	43.693	49.882	-20.495	1.00	24.17	C
ATOM	3801	CD1	PHE	B	108	43.865	50.120	-21.859	1.00	21.94	C
ATOM	3802	CE1	PHE	B	108	44.450	49.149	-22.690	1.00	21.20	C
ATOM	3803	CZ	PHE	B	108	44.855	47.931	-22.152	1.00	21.92	C
ATOM	3804	CE2	PHE	B	108	44.679	47.683	-20.794	1.00	20.80	C
ATOM	3805	CD2	PHE	B	108	44.092	48.652	-19.977	1.00	23.64	C
ATOM	3806	C	PHE	B	108	44.772	51.085	-17.777	1.00	27.15	C
ATOM	3807	O	PHE	B	108	45.976	50.852	-17.909	1.00	23.41	O
ATOM	3808	N	ASP	B	109	44.061	50.720	-16.709	1.00	25.29	N
ATOM	3809	CA	ASP	B	109	44.655	50.011	-15.579	1.00	29.38	C
ATOM	3810	CB	ASP	B	109	43.620	49.783	-14.469	1.00	35.81	C
ATOM	3811	CG	ASP	B	109	43.108	51.074	-13.860	1.00	42.40	C
ATOM	3812	OD1	ASP	B	109	43.933	51.899	-13.410	1.00	46.68	O
ATOM	3813	OD2	ASP	B	109	41.891	51.342	-13.782	1.00	42.75	O
ATOM	3814	C	ASP	B	109	45.209	48.664	-16.019	1.00	26.93	C
ATOM	3815	O	ASP	B	109	44.501	47.870	-16.634	1.00	28.44	O
ATOM	3816	N	GLY	B	110	46.478	48.420	-15.703	1.00	24.67	N
ATOM	3817	CA	GLY	B	110	47.122	47.161	-16.028	1.00	25.00	C
ATOM	3818	C	GLY	B	110	47.599	47.064	-17.466	1.00	22.64	C
ATOM	3819	O	GLY	B	110	47.890	45.968	-17.954	1.00	21.40	O
ATOM	3820	N	LEU	B	111	47.688	48.207	-18.143	1.00	22.41	N
ATOM	3821	CA	LEU	B	111	48.113	48.252	-19.540	1.00	22.94	C
ATOM	3822	CB	LEU	B	111	48.301	49.709	-20.007	1.00	22.49	C
ATOM	3823	CG	LEU	B	111	49.035	49.942	-21.332	1.00	25.88	C
ATOM	3824	CD1	LEU	B	111	48.310	49.270	-22.493	1.00	24.86	C
ATOM	3825	CD2	LEU	B	111	49.225	51.434	-21.607	1.00	29.70	C
ATOM	3826	C	LEU	B	111	49.389	47.447	-19.786	1.00	20.23	C
ATOM	3827	O	LEU	B	111	49.445	46.613	-20.693	1.00	20.50	O

ATOM	3828	N	PHE	B	112	50.415	47.694	-18.980	1.00	19.98	N
ATOM	3829	CA	PHE	B	112	51.690	47.039	-19.220	1.00	21.15	C
ATOM	3830	CB	PHE	B	112	52.810	47.649	-18.382	1.00	23.45	C
ATOM	3831	CG	PHE	B	112	54.165	47.106	-18.722	1.00	24.50	C
ATOM	3832	CD1	PHE	B	112	54.762	47.414	-19.941	1.00	25.47	C
ATOM	3833	CE1	PHE	B	112	56.014	46.903	-20.276	1.00	25.04	C
ATOM	3834	CZ	PHE	B	112	56.677	46.076	-19.389	1.00	26.87	C
ATOM	3835	CE2	PHE	B	112	56.091	45.755	-18.166	1.00	26.90	C
ATOM	3836	CD2	PHE	B	112	54.835	46.269	-17.838	1.00	25.95	C
ATOM	3837	C	PHE	B	112	51.607	45.531	-19.006	1.00	21.35	C
ATOM	3838	O	PHE	B	112	52.142	44.765	-19.802	1.00	21.34	O
ATOM	3839	N	GLU	B	113	50.917	45.119	-17.944	1.00	19.54	N
ATOM	3840	CA	GLU	B	113	50.694	43.701	-17.654	1.00	21.92	C
ATOM	3841	CB	GLU	B	113	49.888	43.573	-16.367	1.00	25.06	C
ATOM	3842	CG	GLU	B	113	50.082	42.274	-15.608	1.00	37.10	C
ATOM	3843	CD	GLU	B	113	49.379	42.296	-14.259	1.00	44.22	C
ATOM	3844	OE1	GLU	B	113	50.025	41.946	-13.247	1.00	47.14	O
ATOM	3845	OE2	GLU	B	113	48.180	42.673	-14.207	1.00	45.31	O
ATOM	3846	C	GLU	B	113	49.958	43.008	-18.810	1.00	21.30	C
ATOM	3847	O	GLU	B	113	50.308	41.894	-19.208	1.00	18.89	O
ATOM	3848	N	PHE	B	114	48.943	43.688	-19.340	1.00	18.64	N
ATOM	3849	CA	PHE	B	114	48.199	43.233	-20.513	1.00	20.59	C
ATOM	3850	CB	PHE	B	114	47.085	44.244	-20.818	1.00	22.45	C
ATOM	3851	CG	PHE	B	114	46.373	44.014	-22.124	1.00	23.54	C
ATOM	3852	CD1	PHE	B	114	46.608	44.852	-23.214	1.00	23.31	C
ATOM	3853	CE1	PHE	B	114	45.938	44.663	-24.423	1.00	26.03	C
ATOM	3854	CZ	PHE	B	114	45.009	43.622	-24.548	1.00	23.58	C
ATOM	3855	CE2	PHE	B	114	44.761	42.784	-23.460	1.00	28.45	C
ATOM	3856	CD2	PHE	B	114	45.443	42.987	-22.252	1.00	23.61	C
ATOM	3857	C	PHE	B	114	49.126	43.036	-21.721	1.00	20.37	C
ATOM	3858	O	PHE	B	114	49.047	42.027	-22.414	1.00	17.39	O
ATOM	3859	N	CYS	B	115	50.020	43.994	-21.957	1.00	16.81	N
ATOM	3860	CA	CYS	B	115	51.011	43.858	-23.022	1.00	18.66	C
ATOM	3861	CB	CYS	B	115	51.807	45.152	-23.193	1.00	19.67	C
ATOM	3862	SG	CYS	B	115	50.777	46.522	-23.773	1.00	25.59	S
ATOM	3863	C	CYS	B	115	51.955	42.684	-22.755	1.00	16.14	C
ATOM	3864	O	CYS	B	115	52.314	41.952	-23.670	1.00	14.44	O
ATOM	3865	N	GLN	B	116	52.363	42.515	-21.504	1.00	15.60	N
ATOM	3866	CA	GLN	B	116	53.258	41.415	-21.143	1.00	16.04	C
ATOM	3867	CB	GLN	B	116	53.613	41.496	-19.662	1.00	16.36	C
ATOM	3868	CG	GLN	B	116	54.544	42.640	-19.334	1.00	21.18	C
ATOM	3869	CD	GLN	B	116	54.936	42.633	-17.886	1.00	21.58	C
ATOM	3870	OE1	GLN	B	116	54.114	42.929	-17.025	1.00	22.21	O
ATOM	3871	NE2	GLN	B	116	56.189	42.295	-17.609	1.00	20.60	N
ATOM	3872	C	GLN	B	116	52.660	40.042	-21.459	1.00	15.67	C
ATOM	3873	O	GLN	B	116	53.350	39.166	-21.979	1.00	16.35	O
ATOM	3874	N	LEU	B	117	51.381	39.868	-21.136	1.00	17.14	N
ATOM	3875	CA	LEU	B	117	50.709	38.577	-21.291	1.00	20.53	C
ATOM	3876	CB	LEU	B	117	49.425	38.540	-20.465	1.00	19.75	C
ATOM	3877	CG	LEU	B	117	49.563	38.511	-18.941	1.00	22.04	C
ATOM	3878	CD1	LEU	B	117	48.212	38.828	-18.320	1.00	22.30	C
ATOM	3879	CD2	LEU	B	117	50.086	37.157	-18.445	1.00	25.76	C
ATOM	3880	C	LEU	B	117	50.399	38.250	-22.748	1.00	19.48	C
ATOM	3881	O	LEU	B	117	50.577	37.112	-23.191	1.00	19.72	O
ATOM	3882	N	SER	B	118	49.928	39.256	-23.482	1.00	19.36	N
ATOM	3883	CA	SER	B	118	49.709	39.132	-24.917	1.00	19.40	C
ATOM	3884	CB	SER	B	118	49.130	40.446	-25.469	1.00	23.00	C
ATOM	3885	OG	SER	B	118	49.238	40.502	-26.880	1.00	30.79	O
ATOM	3886	C	SER	B	118	51.009	38.748	-25.633	1.00	20.79	C
ATOM	3887	O	SER	B	118	51.040	37.810	-26.422	1.00	21.29	O
ATOM	3888	N	THR	B	119	52.088	39.462	-25.329	1.00	16.68	N
ATOM	3889	CA	THR	B	119	53.379	39.218	-25.959	1.00	14.73	C
ATOM	3890	CB	THR	B	119	54.339	40.354	-25.612	1.00	19.24	C

ATOM	3891	OG1	THR	B	119	53.803	41.584	-26.120	1.00	21.82	O
ATOM	3892	CG2	THR	B	119	55.666	40.194	-26.343	1.00	21.43	C
ATOM	3893	C	THR	B	119	53.983	37.879	-25.535	1.00	17.98	C
ATOM	3894	O	THR	B	119	54.554	37.174	-26.357	1.00	18.62	O
ATOM	3895	N	GLY	B	120	53.851	37.555	-24.250	1.00	17.52	N
ATOM	3896	CA	GLY	B	120	54.447	36.357	-23.679	1.00	20.03	C
ATOM	3897	C	GLY	B	120	54.059	35.115	-24.444	1.00	17.91	C
ATOM	3898	O	GLY	B	120	54.915	34.290	-24.760	1.00	19.65	O
ATOM	3899	N	GLY	B	121	52.772	35.002	-24.771	1.00	17.34	N
ATOM	3900	CA	GLY	B	121	52.268	33.855	-25.508	1.00	18.21	C
ATOM	3901	C	GLY	B	121	52.889	33.697	-26.885	1.00	17.26	C
ATOM	3902	O	GLY	B	121	53.154	32.585	-27.336	1.00	17.34	O
ATOM	3903	N	SER	B	122	53.122	34.816	-27.563	1.00	13.65	N
ATOM	3904	CA	SER	B	122	53.682	34.788	-28.904	1.00	13.70	C
ATOM	3905	CB	SER	B	122	53.522	36.167	-29.554	1.00	14.35	C
ATOM	3906	OG	SER	B	122	52.141	36.466	-29.681	1.00	16.20	O
ATOM	3907	C	SER	B	122	55.154	34.387	-28.885	1.00	13.23	C
ATOM	3908	O	SER	B	122	55.584	33.547	-29.681	1.00	16.76	O
ATOM	3909	N	VAL	B	123	55.923	35.005	-27.995	1.00	14.37	N
ATOM	3910	CA	VAL	B	123	57.351	34.667	-27.871	1.00	18.24	C
ATOM	3911	CB	VAL	B	123	58.118	35.709	-27.032	1.00	21.06	C
ATOM	3912	CG1	VAL	B	123	59.558	35.262	-26.793	1.00	25.46	C
ATOM	3913	CG2	VAL	B	123	58.109	37.078	-27.753	1.00	19.67	C
ATOM	3914	C	VAL	B	123	57.557	33.233	-27.342	1.00	18.72	C
ATOM	3915	O	VAL	B	123	58.415	32.496	-27.840	1.00	20.70	O
ATOM	3916	N	ALA	B	124	56.753	32.833	-26.361	1.00	20.16	N
ATOM	3917	CA	ALA	B	124	56.818	31.466	-25.835	1.00	20.13	C
ATOM	3918	CB	ALA	B	124	55.908	31.303	-24.618	1.00	21.23	C
ATOM	3919	C	ALA	B	124	56.487	30.425	-26.906	1.00	18.79	C
ATOM	3920	O	ALA	B	124	57.119	29.380	-26.970	1.00	18.16	O
ATOM	3921	N	GLY	B	125	55.499	30.721	-27.750	1.00	16.98	N
ATOM	3922	CA	GLY	B	125	55.176	29.861	-28.882	1.00	16.45	C
ATOM	3923	C	GLY	B	125	56.327	29.718	-29.862	1.00	20.50	C
ATOM	3924	O	GLY	B	125	56.641	28.609	-30.308	1.00	17.74	O
ATOM	3925	N	ALA	B	126	56.960	30.840	-30.200	1.00	17.13	N
ATOM	3926	CA	ALA	B	126	58.136	30.818	-31.069	1.00	18.25	C
ATOM	3927	CB	ALA	B	126	58.633	32.244	-31.341	1.00	15.94	C
ATOM	3928	C	ALA	B	126	59.266	29.952	-30.497	1.00	18.93	C
ATOM	3929	O	ALA	B	126	59.914	29.204	-31.237	1.00	21.73	O
ATOM	3930	N	VAL	B	127	59.482	30.051	-29.186	1.00	21.36	N
ATOM	3931	CA	VAL	B	127	60.499	29.247	-28.496	1.00	22.04	C
ATOM	3932	CB	VAL	B	127	60.631	29.655	-27.000	1.00	25.66	C
ATOM	3933	CG1	VAL	B	127	61.496	28.647	-26.214	1.00	27.11	C
ATOM	3934	CG2	VAL	B	127	61.212	31.059	-26.885	1.00	25.48	C
ATOM	3935	C	VAL	B	127	60.180	27.753	-28.633	1.00	22.14	C
ATOM	3936	O	VAL	B	127	61.061	26.944	-28.963	1.00	24.31	O
ATOM	3937	N	LYS	B	128	58.918	27.401	-28.393	1.00	21.33	N
ATOM	3938	CA	LYS	B	128	58.435	26.026	-28.544	1.00	25.19	C
ATOM	3939	CB	LYS	B	128	56.954	25.947	-28.156	1.00	29.86	C
ATOM	3940	CG	LYS	B	128	56.633	24.961	-27.045	1.00	40.74	C
ATOM	3941	CD	LYS	B	128	56.802	25.569	-25.664	1.00	43.55	C
ATOM	3942	CE	LYS	B	128	56.632	24.509	-24.582	1.00	46.91	C
ATOM	3943	NZ	LYS	B	128	57.093	24.984	-23.246	1.00	49.85	N
ATOM	3944	C	LYS	B	128	58.656	25.477	-29.960	1.00	25.18	C
ATOM	3945	O	LYS	B	128	59.101	24.332	-30.134	1.00	22.99	O
ATOM	3946	N	LEU	B	129	58.355	26.295	-30.968	1.00	16.26	N
ATOM	3947	CA	LEU	B	129	58.586	25.929	-32.363	1.00	18.49	C
ATOM	3948	CB	LEU	B	129	58.048	27.024	-33.307	1.00	17.39	C
ATOM	3949	CG	LEU	B	129	56.678	26.957	-34.010	1.00	27.07	C
ATOM	3950	CD1	LEU	B	129	55.848	25.735	-33.691	1.00	20.03	C
ATOM	3951	CD2	LEU	B	129	55.864	28.238	-33.789	1.00	22.35	C
ATOM	3952	C	LEU	B	129	60.081	25.723	-32.626	1.00	20.22	C
ATOM	3953	O	LEU	B	129	60.467	24.737	-33.257	1.00	23.10	O

ATOM	3954	N	ASN	B	130	60.902	26.655	-32.141	1.00	22.03	N
ATOM	3955	CA	ASN	B	130	62.358	26.607	-32.309	1.00	24.60	C
ATOM	3956	CB	ASN	B	130	63.018	27.813	-31.633	1.00	21.92	C
ATOM	3957	CG	ASN	B	130	63.070	29.044	-32.531	1.00	20.30	C
ATOM	3958	OD1	ASN	B	130	62.811	28.969	-33.728	1.00	20.60	O
ATOM	3959	ND2	ASN	B	130	63.430	30.178	-31.948	1.00	20.79	N
ATOM	3960	C	ASN	B	130	62.956	25.335	-31.712	1.00	30.46	C
ATOM	3961	O	ASN	B	130	63.796	24.680	-32.332	1.00	34.15	O
ATOM	3962	N	ARG	B	131	62.513	25.002	-30.503	1.00	30.95	N
ATOM	3963	CA	ARG	B	131	62.998	23.826	-29.778	1.00	32.51	C
ATOM	3964	CB	ARG	B	131	62.758	24.002	-28.274	1.00	33.41	C
ATOM	3965	CG	ARG	B	131	63.820	24.865	-27.596	1.00	39.19	C
ATOM	3966	CD	ARG	B	131	63.447	25.393	-26.221	1.00	44.79	C
ATOM	3967	NE	ARG	B	131	64.388	26.421	-25.769	1.00	48.21	N
ATOM	3968	CZ	ARG	B	131	64.337	27.038	-24.591	1.00	50.60	C
ATOM	3969	NH1	ARG	B	131	65.244	27.958	-24.292	1.00	52.87	N
ATOM	3970	NH2	ARG	B	131	63.386	26.748	-23.709	1.00	52.91	N
ATOM	3971	C	ARG	B	131	62.381	22.525	-30.295	1.00	32.58	C
ATOM	3972	O	ARG	B	131	62.685	21.440	-29.793	1.00	34.72	O
ATOM	3973	N	GLN	B	132	61.527	22.646	-31.312	1.00	26.94	N
ATOM	3974	CA	GLN	B	132	60.831	21.519	-31.930	1.00	31.69	C
ATOM	3975	CB	GLN	B	132	61.808	20.633	-32.719	1.00	36.27	C
ATOM	3976	CG	GLN	B	132	62.235	21.219	-34.063	1.00	38.78	C
ATOM	3977	CD	GLN	B	132	63.450	20.522	-34.662	1.00	42.94	C
ATOM	3978	OE1	GLN	B	132	64.284	21.164	-35.303	1.00	44.92	O
ATOM	3979	NE2	GLN	B	132	63.550	19.213	-34.460	1.00	41.23	N
ATOM	3980	C	GLN	B	132	60.025	20.705	-30.913	1.00	33.82	C
ATOM	3981	O	GLN	B	132	59.881	19.487	-31.048	1.00	36.32	O
ATOM	3982	N	GLN	B	133	59.495	21.392	-29.903	1.00	32.89	N
ATOM	3983	CA	GLN	B	133	58.649	20.763	-28.885	1.00	34.79	C
ATOM	3984	CB	GLN	B	133	58.800	21.481	-27.537	1.00	37.78	C
ATOM	3985	CG	GLN	B	133	60.201	21.374	-26.928	1.00	43.56	C
ATOM	3986	CD	GLN	B	133	60.415	22.283	-25.726	1.00	48.81	C
ATOM	3987	OE1	GLN	B	133	59.971	23.432	-25.713	1.00	53.11	O
ATOM	3988	NE2	GLN	B	133	61.110	21.770	-24.718	1.00	51.66	N
ATOM	3989	C	GLN	B	133	57.181	20.725	-29.325	1.00	34.71	C
ATOM	3990	O	GLN	B	133	56.356	20.046	-28.709	1.00	34.73	O
ATOM	3991	N	THR	B	134	56.872	21.452	-30.398	1.00	28.47	N
ATOM	3992	CA	THR	B	134	55.533	21.496	-30.979	1.00	25.62	C
ATOM	3993	CB	THR	B	134	54.665	22.574	-30.258	1.00	26.34	C
ATOM	3994	OG1	THR	B	134	53.295	22.429	-30.639	1.00	24.49	O
ATOM	3995	CG2	THR	B	134	55.015	23.994	-30.719	1.00	21.48	C
ATOM	3996	C	THR	B	134	55.603	21.760	-32.484	1.00	24.55	C
ATOM	3997	O	THR	B	134	56.600	22.285	-32.978	1.00	24.86	O
ATOM	3998	N	ASP	B	135	54.547	21.391	-33.204	1.00	22.82	N
ATOM	3999	CA	ASP	B	135	54.426	21.700	-34.629	1.00	26.17	C
ATOM	4000	CB	ASP	B	135	53.735	20.561	-35.369	1.00	30.90	C
ATOM	4001	CG	ASP	B	135	54.516	19.270	-35.294	1.00	38.55	C
ATOM	4002	OD1	ASP	B	135	54.005	18.299	-34.690	1.00	39.83	O
ATOM	4003	OD2	ASP	B	135	55.652	19.146	-35.797	1.00	40.51	O
ATOM	4004	C	ASP	B	135	53.662	22.998	-34.886	1.00	22.57	C
ATOM	4005	O	ASP	B	135	53.888	23.672	-35.890	1.00	21.86	O
ATOM	4006	N	MET	B	136	52.720	23.302	-34.000	1.00	21.85	N
ATOM	4007	CA	MET	B	136	51.919	24.515	-34.103	1.00	21.45	C
ATOM	4008	CB	MET	B	136	50.520	24.205	-34.647	1.00	23.65	C
ATOM	4009	CG	MET	B	136	50.469	23.979	-36.151	1.00	31.21	C
ATOM	4010	SD	MET	B	136	48.910	23.252	-36.696	1.00	32.86	S
ATOM	4011	CE	MET	B	136	49.292	21.484	-36.512	1.00	37.13	C
ATOM	4012	C	MET	B	136	51.806	25.129	-32.722	1.00	16.87	C
ATOM	4013	O	MET	B	136	51.682	24.418	-31.723	1.00	20.63	O
ATOM	4014	N	ALA	B	137	51.866	26.454	-32.664	1.00	15.54	N
ATOM	4015	CA	ALA	B	137	51.622	27.166	-31.422	1.00	13.08	C
ATOM	4016	CB	ALA	B	137	52.875	27.855	-30.932	1.00	16.27	C

ATOM	4017	C	ALA	B	137	50.544	28.191	-31.733	1.00	16.34	C
ATOM	4018	O	ALA	B	137	50.535	28.772	-32.824	1.00	15.54	O
ATOM	4019	N	VAL	B	138	49.639	28.392	-30.784	1.00	15.63	N
ATOM	4020	CA	VAL	B	138	48.497	29.292	-30.978	1.00	13.83	C
ATOM	4021	CB	VAL	B	138	47.162	28.506	-31.025	1.00	17.28	C
ATOM	4022	CG1	VAL	B	138	45.970	29.474	-31.210	1.00	14.69	C
ATOM	4023	CG2	VAL	B	138	47.174	27.465	-32.130	1.00	17.51	C
ATOM	4024	C	VAL	B	138	48.436	30.300	-29.835	1.00	13.92	C
ATOM	4025	O	VAL	B	138	48.483	29.924	-28.665	1.00	15.45	O
ATOM	4026	N	ASN	B	139	48.336	31.585	-30.165	1.00	13.25	N
ATOM	4027	CA	ASN	B	139	48.131	32.611	-29.144	1.00	11.58	C
ATOM	4028	CB	ASN	B	139	49.449	33.321	-28.789	1.00	12.41	C
ATOM	4029	CG	ASN	B	139	49.256	34.455	-27.780	1.00	14.95	C
ATOM	4030	OD1	ASN	B	139	48.411	34.373	-26.892	1.00	15.82	O
ATOM	4031	ND2	ASN	B	139	50.049	35.520	-27.917	1.00	18.63	N
ATOM	4032	C	ASN	B	139	47.125	33.621	-29.648	1.00	12.90	C
ATOM	4033	O	ASN	B	139	47.504	34.573	-30.340	1.00	12.05	O
ATOM	4034	N	TRP	B	140	45.848	33.420	-29.319	1.00	11.82	N
ATOM	4035	CA	TRP	B	140	44.809	34.324	-29.847	1.00	13.19	C
ATOM	4036	CB	TRP	B	140	43.405	33.752	-29.635	1.00	11.12	C
ATOM	4037	CG	TRP	B	140	43.155	32.462	-30.397	1.00	12.66	C
ATOM	4038	CD1	TRP	B	140	42.644	31.293	-29.891	1.00	16.48	C
ATOM	4039	NE1	TRP	B	140	42.558	30.342	-30.882	1.00	14.36	N
ATOM	4040	CE2	TRP	B	140	43.017	30.879	-32.058	1.00	14.16	C
ATOM	4041	CD2	TRP	B	140	43.404	32.217	-31.790	1.00	15.14	C
ATOM	4042	CE3	TRP	B	140	43.912	32.993	-32.850	1.00	13.62	C
ATOM	4043	CZ3	TRP	B	140	44.019	32.416	-34.119	1.00	15.00	C
ATOM	4044	CH2	TRP	B	140	43.617	31.088	-34.347	1.00	18.01	C
ATOM	4045	CZ2	TRP	B	140	43.116	30.307	-33.335	1.00	17.08	C
ATOM	4046	C	TRP	B	140	44.913	35.731	-29.256	1.00	16.30	C
ATOM	4047	O	TRP	B	140	44.398	36.685	-29.841	1.00	15.78	O
ATOM	4048	N	ALA	B	141	45.593	35.858	-28.116	1.00	12.13	N
ATOM	4049	CA	ALA	B	141	45.774	37.165	-27.477	1.00	14.36	C
ATOM	4050	CB	ALA	B	141	46.103	37.001	-25.987	1.00	16.40	C
ATOM	4051	C	ALA	B	141	46.851	38.000	-28.183	1.00	19.14	C
ATOM	4052	O	ALA	B	141	46.980	39.197	-27.924	1.00	21.14	O
ATOM	4053	N	GLY	B	142	47.611	37.366	-29.075	1.00	14.88	N
ATOM	4054	CA	GLY	B	142	48.638	38.044	-29.850	1.00	15.27	C
ATOM	4055	C	GLY	B	142	48.149	38.553	-31.196	1.00	19.50	C
ATOM	4056	O	GLY	B	142	46.937	38.669	-31.431	1.00	17.39	O
ATOM	4057	N	GLY	B	143	49.088	38.886	-32.076	1.00	15.76	N
ATOM	4058	CA	GLY	B	143	48.755	39.351	-33.421	1.00	15.95	C
ATOM	4059	C	GLY	B	143	48.556	40.855	-33.563	1.00	18.42	C
ATOM	4060	O	GLY	B	143	47.864	41.313	-34.478	1.00	19.31	O
ATOM	4061	N	LEU	B	144	49.187	41.623	-32.675	1.00	16.41	N
ATOM	4062	CA	LEU	B	144	49.009	43.074	-32.626	1.00	20.79	C
ATOM	4063	CB	LEU	B	144	49.204	43.586	-31.193	1.00	22.27	C
ATOM	4064	CG	LEU	B	144	48.111	43.345	-30.128	1.00	28.45	C
ATOM	4065	CD1	LEU	B	144	46.702	43.732	-30.600	1.00	34.41	C
ATOM	4066	CD2	LEU	B	144	48.129	41.903	-29.639	1.00	28.89	C
ATOM	4067	C	LEU	B	144	49.940	43.787	-33.616	1.00	21.62	C
ATOM	4068	O	LEU	B	144	50.965	44.380	-33.236	1.00	25.98	O
ATOM	4069	N	HIS	B	145	49.533	43.766	-34.881	1.00	18.46	N
ATOM	4070	CA	HIS	B	145	50.421	44.064	-36.004	1.00	17.78	C
ATOM	4071	CB	HIS	B	145	49.974	43.321	-37.292	1.00	17.21	C
ATOM	4072	CG	HIS	B	145	48.581	43.636	-37.768	1.00	15.61	C
ATOM	4073	ND1	HIS	B	145	47.673	44.376	-37.042	1.00	22.18	N
ATOM	4074	CE1	HIS	B	145	46.542	44.475	-37.720	1.00	16.36	C
ATOM	4075	NE2	HIS	B	145	46.680	43.821	-38.859	1.00	19.81	N
ATOM	4076	CD2	HIS	B	145	47.944	43.285	-38.913	1.00	13.59	C
ATOM	4077	C	HIS	B	145	50.751	45.539	-36.303	1.00	16.71	C
ATOM	4078	O	HIS	B	145	51.608	45.791	-37.138	1.00	17.33	O
ATOM	4079	N	HIS	B	146	50.102	46.487	-35.621	1.00	17.20	N

ATOM	4080	CA	HIS	B	146	50.325	47.920	-35.889	1.00	18.45	C
ATOM	4081	CB	HIS	B	146	49.037	48.726	-35.718	1.00	15.34	C
ATOM	4082	CG	HIS	B	146	47.938	48.295	-36.630	1.00	17.23	C
ATOM	4083	ND1	HIS	B	146	48.091	48.235	-37.999	1.00	18.80	N
ATOM	4084	CE1	HIS	B	146	46.966	47.814	-38.546	1.00	18.34	C
ATOM	4085	NE2	HIS	B	146	46.094	47.589	-37.582	1.00	16.76	N
ATOM	4086	CD2	HIS	B	146	46.676	47.881	-36.373	1.00	16.26	C
ATOM	4087	C	HIS	B	146	51.411	48.584	-35.062	1.00	19.58	C
ATOM	4088	O	HIS	B	146	51.899	49.652	-35.443	1.00	20.29	O
ATOM	4089	N	ALA	B	147	51.790	47.978	-33.937	1.00	18.40	N
ATOM	4090	CA	ALA	B	147	52.739	48.628	-33.029	1.00	18.60	C
ATOM	4091	CB	ALA	B	147	52.917	47.818	-31.737	1.00	16.53	C
ATOM	4092	C	ALA	B	147	54.078	48.858	-33.714	1.00	17.56	C
ATOM	4093	O	ALA	B	147	54.565	48.000	-34.458	1.00	19.10	O
ATOM	4094	N	LYS	B	148	54.664	50.025	-33.451	1.00	17.63	N
ATOM	4095	CA	LYS	B	148	55.906	50.442	-34.085	1.00	19.23	C
ATOM	4096	CB	LYS	B	148	55.759	51.856	-34.663	1.00	22.61	C
ATOM	4097	CG	LYS	B	148	54.585	52.023	-35.636	1.00	28.42	C
ATOM	4098	CD	LYS	B	148	54.774	51.193	-36.896	1.00	31.24	C
ATOM	4099	CE	LYS	B	148	53.568	51.292	-37.819	1.00	36.22	C
ATOM	4100	NZ	LYS	B	148	53.774	52.320	-38.876	1.00	39.99	N
ATOM	4101	C	LYS	B	148	57.035	50.417	-33.072	1.00	19.04	C
ATOM	4102	O	LYS	B	148	56.797	50.275	-31.880	1.00	18.42	O
ATOM	4103	N	LYS	B	149	58.263	50.571	-33.553	1.00	21.07	N
ATOM	4104	CA	LYS	B	149	59.437	50.538	-32.691	1.00	23.20	C
ATOM	4105	CB	LYS	B	149	60.683	50.924	-33.493	1.00	24.36	C
ATOM	4106	CG	LYS	B	149	61.990	50.585	-32.802	1.00	32.03	C
ATOM	4107	CD	LYS	B	149	63.177	50.763	-33.734	1.00	36.66	C
ATOM	4108	CE	LYS	B	149	63.624	49.430	-34.324	1.00	42.35	C
ATOM	4109	NZ	LYS	B	149	64.049	49.550	-35.753	1.00	42.21	N
ATOM	4110	C	LYS	B	149	59.288	51.432	-31.451	1.00	21.61	C
ATOM	4111	O	LYS	B	149	59.591	51.006	-30.334	1.00	19.98	O
ATOM	4112	N	SER	B	150	58.801	52.656	-31.647	1.00	21.30	N
ATOM	4113	CA	SER	B	150	58.707	53.629	-30.555	1.00	24.10	C
ATOM	4114	CB	ASER	B	150	59.816	54.684	-30.682	0.65	22.77	C
ATOM	4115	OG	ASER	B	150	61.044	54.088	-31.042	0.65	29.30	O
ATOM	4116	C	SER	B	150	57.344	54.323	-30.436	1.00	24.98	C
ATOM	4117	O	SER	B	150	57.252	55.422	-29.887	1.00	24.40	O
ATOM	4118	N	GLU	B	151	56.286	53.698	-30.943	1.00	22.26	N
ATOM	4119	CA	GLU	B	151	54.941	54.252	-30.766	1.00	22.72	C
ATOM	4120	CB	GLU	B	151	54.653	55.385	-31.772	1.00	29.10	C
ATOM	4121	CG	GLU	B	151	54.739	54.994	-33.236	1.00	38.98	C
ATOM	4122	CD	GLU	B	151	54.644	56.182	-34.179	1.00	47.25	C
ATOM	4123	OE1	GLU	B	151	53.782	56.150	-35.089	1.00	50.19	O
ATOM	4124	OE2	GLU	B	151	55.430	57.143	-34.021	1.00	49.08	O
ATOM	4125	C	GLU	B	151	53.846	53.202	-30.830	1.00	19.20	C
ATOM	4126	O	GLU	B	151	53.961	52.218	-31.550	1.00	18.87	O
ATOM	4127	N	ALA	B	152	52.782	53.437	-30.076	1.00	16.23	N
ATOM	4128	CA	ALA	B	152	51.568	52.639	-30.188	1.00	19.59	C
ATOM	4129	CB	ALA	B	152	50.683	52.862	-28.967	1.00	16.63	C
ATOM	4130	C	ALA	B	152	50.824	53.034	-31.455	1.00	22.04	C
ATOM	4131	O	ALA	B	152	50.929	54.175	-31.914	1.00	20.49	O
ATOM	4132	N	SER	B	153	50.061	52.099	-32.014	1.00	19.18	N
ATOM	4133	CA	SER	B	153	49.190	52.411	-33.146	1.00	19.29	C
ATOM	4134	CB	SER	B	153	49.993	52.415	-34.450	1.00	17.10	C
ATOM	4135	OG	SER	B	153	49.155	52.651	-35.566	1.00	21.52	O
ATOM	4136	C	SER	B	153	48.073	51.391	-33.254	1.00	20.99	C
ATOM	4137	O	SER	B	153	48.296	50.207	-33.020	1.00	18.70	O
ATOM	4138	N	GLY	B	154	46.876	51.854	-33.609	1.00	18.94	N
ATOM	4139	CA	GLY	B	154	45.791	50.962	-33.999	1.00	20.71	C
ATOM	4140	C	GLY	B	154	45.400	49.910	-32.974	1.00	21.16	C
ATOM	4141	O	GLY	B	154	45.158	48.748	-33.320	1.00	17.75	O
ATOM	4142	N	PHE	B	155	45.329	50.337	-31.717	1.00	18.18	N

ATOM	4143	CA	PHE	B	155	44.961	49.489	-30.574	1.00	18.20	C
ATOM	4144	CB	PHE	B	155	43.734	48.592	-30.856	1.00	19.80	C
ATOM	4145	CG	PHE	B	155	42.552	49.297	-31.498	1.00	19.51	C
ATOM	4146	CD1	PHE	B	155	42.368	50.675	-31.386	1.00	18.36	C
ATOM	4147	CE1	PHE	B	155	41.254	51.306	-31.985	1.00	17.39	C
ATOM	4148	CZ	PHE	B	155	40.320	50.548	-32.689	1.00	17.59	C
ATOM	4149	CE2	PHE	B	155	40.496	49.163	-32.803	1.00	17.13	C
ATOM	4150	CD2	PHE	B	155	41.611	48.552	-32.211	1.00	15.19	C
ATOM	4151	C	PHE	B	155	46.129	48.618	-30.087	1.00	17.37	C
ATOM	4152	O	PHE	B	155	45.968	47.858	-29.135	1.00	20.33	O
ATOM	4153	N	CYS	B	156	47.289	48.732	-30.734	1.00	17.65	N
ATOM	4154	CA	CYS	B	156	48.447	47.881	-30.427	1.00	19.90	C
ATOM	4155	CB	CYS	B	156	49.037	47.288	-31.710	1.00	18.30	C
ATOM	4156	SG	CYS	B	156	47.856	46.462	-32.794	1.00	22.07	S
ATOM	4157	C	CYS	B	156	49.524	48.688	-29.716	1.00	20.01	C
ATOM	4158	O	CYS	B	156	49.776	49.831	-30.084	1.00	19.37	O
ATOM	4159	N	TYR	B	157	50.167	48.097	-28.714	1.00	15.17	N
ATOM	4160	CA	TYR	B	157	51.223	48.802	-27.968	1.00	15.02	C
ATOM	4161	CB	TYR	B	157	50.901	48.863	-26.469	1.00	17.53	C
ATOM	4162	CG	TYR	B	157	49.555	49.471	-26.144	1.00	16.66	C
ATOM	4163	CD1	TYR	B	157	48.395	48.692	-26.179	1.00	16.88	C
ATOM	4164	CE1	TYR	B	157	47.153	49.232	-25.889	1.00	19.29	C
ATOM	4165	CZ	TYR	B	157	47.056	50.574	-25.538	1.00	20.57	C
ATOM	4166	OH	TYR	B	157	45.814	51.087	-25.253	1.00	19.73	O
ATOM	4167	CE2	TYR	B	157	48.191	51.375	-25.487	1.00	16.22	C
ATOM	4168	CD2	TYR	B	157	49.439	50.819	-25.786	1.00	17.93	C
ATOM	4169	C	TYR	B	157	52.586	48.166	-28.188	1.00	17.53	C
ATOM	4170	O	TYR	B	157	53.596	48.852	-28.369	1.00	17.53	O
ATOM	4171	N	VAL	B	158	52.607	46.843	-28.180	1.00	14.98	N
ATOM	4172	CA	VAL	B	158	53.845	46.087	-28.307	1.00	16.32	C
ATOM	4173	CB	VAL	B	158	54.167	45.291	-27.003	1.00	15.65	C
ATOM	4174	CG1	VAL	B	158	55.444	44.474	-27.155	1.00	17.08	C
ATOM	4175	CG2	VAL	B	158	54.283	46.226	-25.801	1.00	19.56	C
ATOM	4176	C	VAL	B	158	53.623	45.129	-29.463	1.00	18.28	C
ATOM	4177	O	VAL	B	158	52.595	44.448	-29.516	1.00	19.65	O
ATOM	4178	N	ASN	B	159	54.565	45.097	-30.396	1.00	15.80	N
ATOM	4179	CA	ASN	B	159	54.416	44.242	-31.559	1.00	16.59	C
ATOM	4180	CB	ASN	B	159	55.118	44.828	-32.792	1.00	16.58	C
ATOM	4181	CG	ASN	B	159	54.543	44.288	-34.089	1.00	18.19	C
ATOM	4182	OD1	ASN	B	159	54.402	43.072	-34.255	1.00	14.66	O
ATOM	4183	ND2	ASN	B	159	54.206	45.183	-35.015	1.00	14.65	N
ATOM	4184	C	ASN	B	159	54.903	42.836	-31.249	1.00	16.08	C
ATOM	4185	O	ASN	B	159	56.064	42.493	-31.498	1.00	17.66	O
ATOM	4186	N	ASP	B	160	53.994	42.027	-30.705	1.00	14.68	N
ATOM	4187	CA	ASP	B	160	54.307	40.646	-30.332	1.00	15.45	C
ATOM	4188	CB	ASP	B	160	53.103	39.991	-29.646	1.00	16.36	C
ATOM	4189	CG	ASP	B	160	51.921	39.813	-30.592	1.00	24.07	C
ATOM	4190	OD1	ASP	B	160	51.353	40.844	-31.027	1.00	23.12	O
ATOM	4191	OD2	ASP	B	160	51.516	38.686	-30.977	1.00	21.12	O
ATOM	4192	C	ASP	B	160	54.713	39.834	-31.552	1.00	15.23	C
ATOM	4193	O	ASP	B	160	55.484	38.886	-31.428	1.00	16.20	O
ATOM	4194	N	ILE	B	161	54.195	40.204	-32.726	1.00	14.70	N
ATOM	4195	CA	ILE	B	161	54.512	39.484	-33.965	1.00	15.16	C
ATOM	4196	CB	ILE	B	161	53.639	39.953	-35.151	1.00	15.93	C
ATOM	4197	CG1	ILE	B	161	52.149	39.819	-34.813	1.00	18.50	C
ATOM	4198	CD1	ILE	B	161	51.239	40.400	-35.848	1.00	19.98	C
ATOM	4199	CG2	ILE	B	161	54.005	39.165	-36.419	1.00	17.10	C
ATOM	4200	C	ILE	B	161	55.979	39.662	-34.318	1.00	15.12	C
ATOM	4201	O	ILE	B	161	56.663	38.690	-34.610	1.00	13.76	O
ATOM	4202	N	VAL	B	162	56.448	40.909	-34.306	1.00	13.03	N
ATOM	4203	CA	VAL	B	162	57.849	41.188	-34.624	1.00	14.65	C
ATOM	4204	CB	VAL	B	162	58.138	42.711	-34.667	1.00	14.18	C
ATOM	4205	CG1	VAL	B	162	59.644	42.978	-34.803	1.00	15.44	C

ATOM	4206	CG2	VAL	B	162	57.379	43.360	-35.824	1.00	14.61	C
ATOM	4207	C	VAL	B	162	58.769	40.464	-33.629	1.00	15.85	C
ATOM	4208	O	VAL	B	162	59.768	39.854	-34.022	1.00	16.21	O
ATOM	4209	N	LEU	B	163	58.413	40.510	-32.352	1.00	14.48	N
ATOM	4210	CA	LEU	B	163	59.214	39.842	-31.312	1.00	15.26	C
ATOM	4211	CB	LEU	B	163	58.718	40.227	-29.914	1.00	14.84	C
ATOM	4212	CG	LEU	B	163	58.843	41.723	-29.592	1.00	13.51	C
ATOM	4213	CD1	LEU	B	163	58.045	42.085	-28.371	1.00	16.18	C
ATOM	4214	CD2	LEU	B	163	60.323	42.129	-29.408	1.00	16.34	C
ATOM	4215	C	LEU	B	163	59.260	38.321	-31.507	1.00	16.76	C
ATOM	4216	O	LEU	B	163	60.323	37.694	-31.375	1.00	15.72	O
ATOM	4217	N	ALA	B	164	58.120	37.730	-31.853	1.00	14.28	N
ATOM	4218	CA	ALA	B	164	58.064	36.289	-32.121	1.00	16.54	C
ATOM	4219	CB	ALA	B	164	56.622	35.825	-32.281	1.00	16.90	C
ATOM	4220	C	ALA	B	164	58.882	35.918	-33.353	1.00	16.18	C
ATOM	4221	O	ALA	B	164	59.572	34.890	-33.359	1.00	16.97	O
ATOM	4222	N	ILE	B	165	58.817	36.755	-34.388	1.00	13.41	N
ATOM	4223	CA	ILE	B	165	59.583	36.511	-35.617	1.00	14.54	C
ATOM	4224	CB	ILE	B	165	59.119	37.417	-36.788	1.00	13.40	C
ATOM	4225	CG1	ILE	B	165	57.734	36.966	-37.281	1.00	15.86	C
ATOM	4226	CD1	ILE	B	165	57.041	37.950	-38.206	1.00	17.77	C
ATOM	4227	CG2	ILE	B	165	60.105	37.332	-37.971	1.00	13.71	C
ATOM	4228	C	ILE	B	165	61.079	36.643	-35.342	1.00	14.98	C
ATOM	4229	O	ILE	B	165	61.869	35.845	-35.835	1.00	15.82	O
ATOM	4230	N	LEU	B	166	61.467	37.627	-34.534	1.00	16.07	N
ATOM	4231	CA	LEU	B	166	62.877	37.770	-34.167	1.00	16.48	C
ATOM	4232	CB	LEU	B	166	63.100	39.013	-33.309	1.00	17.43	C
ATOM	4233	CG	LEU	B	166	63.033	40.341	-34.077	1.00	16.42	C
ATOM	4234	CD1	LEU	B	166	62.972	41.501	-33.087	1.00	18.97	C
ATOM	4235	CD2	LEU	B	166	64.201	40.511	-35.053	1.00	19.36	C
ATOM	4236	C	LEU	B	166	63.397	36.525	-33.448	1.00	19.37	C
ATOM	4237	O	LEU	B	166	64.554	36.115	-33.642	1.00	18.76	O
ATOM	4238	N	GLU	B	167	62.530	35.921	-32.641	1.00	18.16	N
ATOM	4239	CA	GLU	B	167	62.853	34.674	-31.949	1.00	18.56	C
ATOM	4240	CB	GLU	B	167	61.813	34.355	-30.865	1.00	21.75	C
ATOM	4241	CG	GLU	B	167	62.116	33.122	-30.018	1.00	25.50	C
ATOM	4242	CD	GLU	B	167	63.338	33.279	-29.114	1.00	31.03	C
ATOM	4243	OE1	GLU	B	167	64.035	32.270	-28.900	1.00	38.02	O
ATOM	4244	OE2	GLU	B	167	63.598	34.396	-28.610	1.00	34.59	O
ATOM	4245	C	GLU	B	167	63.005	33.530	-32.947	1.00	18.59	C
ATOM	4246	O	GLU	B	167	63.986	32.792	-32.886	1.00	19.33	O
ATOM	4247	N	LEU	B	168	62.065	33.395	-33.885	1.00	14.31	N
ATOM	4248	CA	LEU	B	168	62.192	32.380	-34.933	1.00	14.91	C
ATOM	4249	CB	LEU	B	168	60.968	32.372	-35.847	1.00	20.32	C
ATOM	4250	CG	LEU	B	168	59.666	31.861	-35.231	1.00	19.21	C
ATOM	4251	CD1	LEU	B	168	58.503	32.176	-36.164	1.00	18.88	C
ATOM	4252	CD2	LEU	B	168	59.723	30.348	-34.920	1.00	20.69	C
ATOM	4253	C	LEU	B	168	63.469	32.549	-35.770	1.00	19.16	C
ATOM	4254	O	LEU	B	168	64.095	31.556	-36.174	1.00	19.27	O
ATOM	4255	N	LEU	B	169	63.854	33.801	-36.014	1.00	13.78	N
ATOM	4256	CA	LEU	B	169	65.029	34.106	-36.840	1.00	19.96	C
ATOM	4257	CB	LEU	B	169	65.094	35.592	-37.184	1.00	14.44	C
ATOM	4258	CG	LEU	B	169	64.103	36.080	-38.249	1.00	16.63	C
ATOM	4259	CD1	LEU	B	169	64.029	37.596	-38.218	1.00	15.92	C
ATOM	4260	CD2	LEU	B	169	64.478	35.577	-39.646	1.00	19.51	C
ATOM	4261	C	LEU	B	169	66.352	33.662	-36.217	1.00	20.23	C
ATOM	4262	O	LEU	B	169	67.384	33.635	-36.898	1.00	21.53	O
ATOM	4263	N	LYS	B	170	66.325	33.320	-34.933	1.00	19.79	N
ATOM	4264	CA	LYS	B	170	67.499	32.731	-34.286	1.00	21.39	C
ATOM	4265	CB	LYS	B	170	67.266	32.551	-32.782	1.00	22.41	C
ATOM	4266	CG	LYS	B	170	67.201	33.857	-31.996	1.00	23.98	C
ATOM	4267	CD	LYS	B	170	66.973	33.579	-30.523	1.00	27.04	C
ATOM	4268	CE	LYS	B	170	66.832	34.867	-29.743	1.00	30.98	C

ATOM	4269	NZ	LYS	B	170	66.524	34.590	-28.312	1.00	32.63	N
ATOM	4270	C	LYS	B	170	67.872	31.388	-34.924	1.00	24.66	C
ATOM	4271	O	LYS	B	170	69.059	31.092	-35.101	1.00	22.82	O
ATOM	4272	N	TYR	B	171	66.858	30.595	-35.275	1.00	21.09	N
ATOM	4273	CA	TYR	B	171	67.035	29.228	-35.778	1.00	22.71	C
ATOM	4274	CB	TYR	B	171	66.193	28.241	-34.961	1.00	25.45	C
ATOM	4275	CG	TYR	B	171	66.699	27.948	-33.566	1.00	31.79	C
ATOM	4276	CD1	TYR	B	171	67.238	26.702	-33.250	1.00	38.76	C
ATOM	4277	CE1	TYR	B	171	67.698	26.418	-31.961	1.00	41.31	C
ATOM	4278	CZ	TYR	B	171	67.610	27.388	-30.977	1.00	42.48	C
ATOM	4279	OH	TYR	B	171	68.060	27.114	-29.706	1.00	48.50	O
ATOM	4280	CE2	TYR	B	171	67.074	28.634	-31.264	1.00	41.09	C
ATOM	4281	CD2	TYR	B	171	66.614	28.905	-32.554	1.00	33.35	C
ATOM	4282	C	TYR	B	171	66.669	29.056	-37.250	1.00	24.30	C
ATOM	4283	O	TYR	B	171	67.083	28.077	-37.884	1.00	23.06	O
ATOM	4284	N	HIS	B	172	65.884	29.990	-37.787	1.00	20.56	N
ATOM	4285	CA	HIS	B	172	65.357	29.872	-39.143	1.00	19.52	C
ATOM	4286	CB	HIS	B	172	63.819	29.935	-39.129	1.00	20.73	C
ATOM	4287	CG	HIS	B	172	63.179	28.775	-38.435	1.00	16.68	C
ATOM	4288	ND1	HIS	B	172	62.933	28.765	-37.081	1.00	22.02	N
ATOM	4289	CE1	HIS	B	172	62.369	27.618	-36.747	1.00	19.46	C
ATOM	4290	NE2	HIS	B	172	62.242	26.885	-37.836	1.00	20.14	N
ATOM	4291	CD2	HIS	B	172	62.743	27.585	-38.905	1.00	17.63	C
ATOM	4292	C	HIS	B	172	65.903	30.958	-40.057	1.00	20.92	C
ATOM	4293	O	HIS	B	172	65.821	32.150	-39.742	1.00	19.96	O
ATOM	4294	N	GLN	B	173	66.448	30.540	-41.195	1.00	21.33	N
ATOM	4295	CA	GLN	B	173	67.019	31.472	-42.171	1.00	25.41	C
ATOM	4296	CB	GLN	B	173	67.809	30.713	-43.245	1.00	29.83	C
ATOM	4297	CG	GLN	B	173	68.841	31.569	-43.966	1.00	39.45	C
ATOM	4298	CD	GLN	B	173	70.001	31.959	-43.067	1.00	44.42	C
ATOM	4299	OE1	GLN	B	173	70.204	33.142	-42.791	1.00	48.77	O
ATOM	4300	NE2	GLN	B	173	70.761	30.966	-42.605	1.00	48.73	N
ATOM	4301	C	GLN	B	173	65.964	32.344	-42.843	1.00	23.31	C
ATOM	4302	O	GLN	B	173	66.198	33.525	-43.103	1.00	25.49	O
ATOM	4303	N	ARG	B	174	64.812	31.747	-43.138	1.00	21.98	N
ATOM	4304	CA	ARG	B	174	63.731	32.450	-43.824	1.00	18.91	C
ATOM	4305	CB	ARG	B	174	63.608	31.972	-45.272	1.00	18.26	C
ATOM	4306	CG	ARG	B	174	64.756	32.421	-46.180	1.00	22.23	C
ATOM	4307	CD	ARG	B	174	64.686	31.864	-47.597	1.00	24.18	C
ATOM	4308	NE	ARG	B	174	64.511	30.415	-47.614	1.00	29.79	N
ATOM	4309	CZ	ARG	B	174	65.488	29.528	-47.445	1.00	34.49	C
ATOM	4310	NH1	ARG	B	174	65.207	28.233	-47.468	1.00	35.17	N
ATOM	4311	NH2	ARG	B	174	66.743	29.928	-47.252	1.00	33.04	N
ATOM	4312	C	ARG	B	174	62.427	32.192	-43.101	1.00	17.39	C
ATOM	4313	O	ARG	B	174	62.063	31.043	-42.869	1.00	16.66	O
ATOM	4314	N	VAL	B	175	61.746	33.270	-42.731	1.00	16.95	N
ATOM	4315	CA	VAL	B	175	60.458	33.174	-42.052	1.00	16.64	C
ATOM	4316	CB	VAL	B	175	60.485	33.814	-40.641	1.00	16.11	C
ATOM	4317	CG1	VAL	B	175	59.103	33.761	-39.983	1.00	15.64	C
ATOM	4318	CG2	VAL	B	175	61.523	33.113	-39.732	1.00	18.84	C
ATOM	4319	C	VAL	B	175	59.423	33.859	-42.928	1.00	17.78	C
ATOM	4320	O	VAL	B	175	59.660	34.945	-43.449	1.00	19.25	O
ATOM	4321	N	LEU	B	176	58.283	33.202	-43.094	1.00	15.86	N
ATOM	4322	CA	LEU	B	176	57.170	33.767	-43.833	1.00	15.37	C
ATOM	4323	CB	LEU	B	176	56.552	32.700	-44.737	1.00	15.89	C
ATOM	4324	CG	LEU	B	176	55.249	33.040	-45.465	1.00	15.72	C
ATOM	4325	CD1	LEU	B	176	55.414	34.267	-46.381	1.00	16.36	C
ATOM	4326	CD2	LEU	B	176	54.776	31.833	-46.263	1.00	16.60	C
ATOM	4327	C	LEU	B	176	56.114	34.289	-42.871	1.00	16.23	C
ATOM	4328	O	LEU	B	176	55.692	33.583	-41.962	1.00	16.98	O
ATOM	4329	N	TYR	B	177	55.685	35.527	-43.086	1.00	15.57	N
ATOM	4330	CA	TYR	B	177	54.587	36.095	-42.318	1.00	15.26	C
ATOM	4331	CB	TYR	B	177	55.015	37.438	-41.699	1.00	14.17	C

ATOM	4332	CG	TYR	B	177	53.885	38.196	-41.046	1.00	15.07	C
ATOM	4333	CD1	TYR	B	177	53.302	37.729	-39.871	1.00	14.88	C
ATOM	4334	CE1	TYR	B	177	52.258	38.420	-39.260	1.00	14.81	C
ATOM	4335	CZ	TYR	B	177	51.797	39.595	-39.824	1.00	15.17	C
ATOM	4336	OH	TYR	B	177	50.770	40.269	-39.212	1.00	15.74	O
ATOM	4337	CE2	TYR	B	177	52.360	40.089	-40.984	1.00	15.11	C
ATOM	4338	CD2	TYR	B	177	53.401	39.380	-41.600	1.00	14.91	C
ATOM	4339	C	TYR	B	177	53.387	36.283	-43.245	1.00	13.46	C
ATOM	4340	O	TYR	B	177	53.523	36.851	-44.335	1.00	14.73	O
ATOM	4341	N	ILE	B	178	52.224	35.786	-42.821	1.00	13.71	N
ATOM	4342	CA	ILE	B	178	50.979	35.926	-43.584	1.00	13.68	C
ATOM	4343	CB	ILE	B	178	50.448	34.545	-44.083	1.00	12.73	C
ATOM	4344	CG1	ILE	B	178	51.513	33.791	-44.899	1.00	14.33	C
ATOM	4345	CD1	ILE	B	178	51.267	32.287	-44.960	1.00	17.66	C
ATOM	4346	CG2	ILE	B	178	49.169	34.723	-44.927	1.00	15.54	C
ATOM	4347	C	ILE	B	178	49.935	36.602	-42.699	1.00	14.51	C
ATOM	4348	O	ILE	B	178	49.769	36.239	-41.530	1.00	16.80	O
ATOM	4349	N	ASP	B	179	49.227	37.577	-43.263	1.00	13.11	N
ATOM	4350	CA	ASP	B	179	48.350	38.445	-42.483	1.00	15.74	C
ATOM	4351	CB	ASP	B	179	49.023	39.829	-42.391	1.00	15.13	C
ATOM	4352	CG	ASP	B	179	48.367	40.754	-41.384	1.00	16.21	C
ATOM	4353	OD1	ASP	B	179	47.124	40.831	-41.340	1.00	16.48	O
ATOM	4354	OD2	ASP	B	179	49.025	41.472	-40.604	1.00	21.55	O
ATOM	4355	C	ASP	B	179	46.976	38.527	-43.167	1.00	14.82	C
ATOM	4356	O	ASP	B	179	46.846	39.167	-44.217	1.00	14.10	O
ATOM	4357	N	ILE	B	180	45.960	37.876	-42.586	1.00	14.20	N
ATOM	4358	CA	ILE	B	180	44.596	37.889	-43.156	1.00	14.80	C
ATOM	4359	CB	ILE	B	180	44.044	36.451	-43.383	1.00	13.54	C
ATOM	4360	CG1	ILE	B	180	43.901	35.690	-42.061	1.00	12.68	C
ATOM	4361	CD1	ILE	B	180	43.031	34.429	-42.159	1.00	18.60	C
ATOM	4362	CG2	ILE	B	180	44.904	35.700	-44.396	1.00	13.84	C
ATOM	4363	C	ILE	B	180	43.585	38.770	-42.388	1.00	15.18	C
ATOM	4364	O	ILE	B	180	42.369	38.712	-42.629	1.00	15.75	O
ATOM	4365	N	ASP	B	181	44.106	39.570	-41.461	1.00	13.87	N
ATOM	4366	CA	ASP	B	181	43.378	40.694	-40.863	1.00	15.98	C
ATOM	4367	CB	ASP	B	181	44.348	41.448	-39.946	1.00	13.69	C
ATOM	4368	CG	ASP	B	181	43.666	42.438	-39.029	1.00	16.16	C
ATOM	4369	OD1	ASP	B	181	43.601	42.197	-37.799	1.00	14.79	O
ATOM	4370	OD2	ASP	B	181	43.208	43.510	-39.451	1.00	16.12	O
ATOM	4371	C	ASP	B	181	42.910	41.600	-42.011	1.00	14.31	C
ATOM	4372	O	ASP	B	181	43.580	41.679	-43.041	1.00	14.98	O
ATOM	4373	N	ILE	B	182	41.766	42.264	-41.860	1.00	12.20	N
ATOM	4374	CA	ILE	B	182	41.293	43.183	-42.904	1.00	12.44	C
ATOM	4375	CB	ILE	B	182	39.824	43.628	-42.637	1.00	14.35	C
ATOM	4376	CG1	ILE	B	182	39.176	44.146	-43.933	1.00	15.82	C
ATOM	4377	CD1	ILE	B	182	37.688	44.508	-43.804	1.00	16.73	C
ATOM	4378	CG2	ILE	B	182	39.768	44.670	-41.517	1.00	12.85	C
ATOM	4379	C	ILE	B	182	42.231	44.396	-43.096	1.00	14.70	C
ATOM	4380	O	ILE	B	182	42.216	45.032	-44.146	1.00	13.36	O
ATOM	4381	N	HIS	B	183	43.033	44.711	-42.077	1.00	13.84	N
ATOM	4382	CA	HIS	B	183	43.975	45.828	-42.146	1.00	15.57	C
ATOM	4383	CB	HIS	B	183	44.050	46.537	-40.789	1.00	13.95	C
ATOM	4384	CG	HIS	B	183	42.728	47.054	-40.321	1.00	17.08	C
ATOM	4385	ND1	HIS	B	183	41.977	46.412	-39.364	1.00	12.90	N
ATOM	4386	CE1	HIS	B	183	40.852	47.078	-39.167	1.00	16.79	C
ATOM	4387	NE2	HIS	B	183	40.842	48.126	-39.972	1.00	16.19	N
ATOM	4388	CD2	HIS	B	183	42.004	48.132	-40.707	1.00	17.87	C
ATOM	4389	C	HIS	B	183	45.351	45.356	-42.575	1.00	17.06	C
ATOM	4390	O	HIS	B	183	45.716	44.211	-42.325	1.00	15.82	O
ATOM	4391	N	HIS	B	184	46.103	46.236	-43.236	1.00	13.61	N
ATOM	4392	CA	HIS	B	184	47.493	45.958	-43.591	1.00	14.81	C
ATOM	4393	CB	HIS	B	184	48.037	47.090	-44.471	1.00	17.53	C
ATOM	4394	CG	HIS	B	184	49.494	46.962	-44.798	1.00	16.56	C

ATOM	4395	ND1	HIS	B	184	50.412	47.949	-44.513	1.00	18.71	N
ATOM	4396	CE1	HIS	B	184	51.611	47.562	-44.915	1.00	18.71	C
ATOM	4397	NE2	HIS	B	184	51.501	46.362	-45.457	1.00	18.41	N
ATOM	4398	CD2	HIS	B	184	50.186	45.964	-45.393	1.00	14.71	C
ATOM	4399	C	HIS	B	184	48.338	45.837	-42.325	1.00	17.15	C
ATOM	4400	O	HIS	B	184	48.224	46.664	-41.423	1.00	16.26	O
ATOM	4401	N	GLY	B	185	49.188	44.813	-42.259	1.00	18.04	N
ATOM	4402	CA	GLY	B	185	50.073	44.642	-41.118	1.00	19.69	C
ATOM	4403	C	GLY	B	185	51.300	45.528	-41.222	1.00	22.09	C
ATOM	4404	O	GLY	B	185	52.405	45.046	-41.473	1.00	23.07	O
ATOM	4405	N	ASP	B	186	51.104	46.826	-41.029	1.00	20.46	N
ATOM	4406	CA	ASP	B	186	52.145	47.818	-41.317	1.00	20.39	C
ATOM	4407	CB	ASP	B	186	51.546	49.233	-41.349	1.00	20.02	C
ATOM	4408	CG	ASP	B	186	50.920	49.639	-40.032	1.00	24.42	C
ATOM	4409	OD1	ASP	B	186	50.869	50.854	-39.756	1.00	25.43	O
ATOM	4410	OD2	ASP	B	186	50.453	48.826	-39.206	1.00	27.51	O
ATOM	4411	C	ASP	B	186	53.354	47.761	-40.378	1.00	20.38	C
ATOM	4412	O	ASP	B	186	54.488	47.966	-40.817	1.00	19.75	O
ATOM	4413	N	GLY	B	187	53.107	47.475	-39.102	1.00	17.39	N
ATOM	4414	CA	GLY	B	187	54.160	47.389	-38.097	1.00	17.96	C
ATOM	4415	C	GLY	B	187	55.115	46.246	-38.380	1.00	17.52	C
ATOM	4416	O	GLY	B	187	56.322	46.374	-38.178	1.00	16.02	O
ATOM	4417	N	VAL	B	188	54.572	45.120	-38.841	1.00	16.67	N
ATOM	4418	CA	VAL	B	188	55.397	43.957	-39.176	1.00	15.50	C
ATOM	4419	CB	VAL	B	188	54.546	42.663	-39.262	1.00	14.66	C
ATOM	4420	CG1	VAL	B	188	55.439	41.444	-39.424	1.00	16.65	C
ATOM	4421	CG2	VAL	B	188	53.660	42.526	-38.017	1.00	16.70	C
ATOM	4422	C	VAL	B	188	56.151	44.208	-40.483	1.00	17.60	C
ATOM	4423	O	VAL	B	188	57.355	43.941	-40.594	1.00	16.89	O
ATOM	4424	N	GLU	B	189	55.445	44.738	-41.476	1.00	16.03	N
ATOM	4425	CA	GLU	B	189	56.076	45.033	-42.759	1.00	18.78	C
ATOM	4426	CB	GLU	B	189	55.063	45.588	-43.751	1.00	21.21	C
ATOM	4427	CG	GLU	B	189	55.647	45.819	-45.137	1.00	23.84	C
ATOM	4428	CD	GLU	B	189	54.615	46.348	-46.104	1.00	28.78	C
ATOM	4429	OE1	GLU	B	189	53.859	45.524	-46.655	1.00	25.74	O
ATOM	4430	OE2	GLU	B	189	54.545	47.585	-46.286	1.00	29.01	O
ATOM	4431	C	GLU	B	189	57.247	46.011	-42.580	1.00	17.35	C
ATOM	4432	O	GLU	B	189	58.327	45.797	-43.137	1.00	19.33	O
ATOM	4433	N	GLU	B	190	57.029	47.048	-41.777	1.00	18.52	N
ATOM	4434	CA	GLU	B	190	58.044	48.068	-41.495	1.00	22.18	C
ATOM	4435	CB	GLU	B	190	57.465	49.188	-40.621	1.00	25.63	C
ATOM	4436	CG	GLU	B	190	58.470	50.265	-40.223	1.00	31.22	C
ATOM	4437	CD	GLU	B	190	57.835	51.424	-39.480	1.00	38.66	C
ATOM	4438	OE1	GLU	B	190	57.980	51.496	-38.241	1.00	40.90	O
ATOM	4439	OE2	GLU	B	190	57.191	52.270	-40.136	1.00	46.57	O
ATOM	4440	C	GLU	B	190	59.296	47.481	-40.839	1.00	22.75	C
ATOM	4441	O	GLU	B	190	60.411	47.799	-41.242	1.00	20.14	O
ATOM	4442	N	ALA	B	191	59.105	46.628	-39.833	1.00	18.61	N
ATOM	4443	CA	ALA	B	191	60.229	45.976	-39.157	1.00	20.17	C
ATOM	4444	CB	ALA	B	191	59.722	45.038	-38.060	1.00	15.95	C
ATOM	4445	C	ALA	B	191	61.136	45.212	-40.115	1.00	18.53	C
ATOM	4446	O	ALA	B	191	62.353	45.204	-39.944	1.00	21.01	O
ATOM	4447	N	PHE	B	192	60.534	44.568	-41.114	1.00	18.57	N
ATOM	4448	CA	PHE	B	192	61.251	43.637	-41.981	1.00	18.09	C
ATOM	4449	CB	PHE	B	192	60.647	42.230	-41.842	1.00	17.07	C
ATOM	4450	CG	PHE	B	192	60.660	41.702	-40.423	1.00	15.61	C
ATOM	4451	CD1	PHE	B	192	59.471	41.424	-39.756	1.00	18.72	C
ATOM	4452	CE1	PHE	B	192	59.480	40.951	-38.438	1.00	18.23	C
ATOM	4453	CZ	PHE	B	192	60.687	40.747	-37.781	1.00	17.49	C
ATOM	4454	CE2	PHE	B	192	61.879	41.017	-38.429	1.00	18.64	C
ATOM	4455	CD2	PHE	B	192	61.864	41.494	-39.751	1.00	20.17	C
ATOM	4456	C	PHE	B	192	61.316	44.067	-43.456	1.00	17.09	C
ATOM	4457	O	PHE	B	192	61.623	43.258	-44.332	1.00	20.00	O

ATOM	4458	N	TYR	B	193	61.041	45.341	-43.714	1.00	17.73	N
ATOM	4459	CA	TYR	B	193	60.967	45.861	-45.078	1.00	18.42	C
ATOM	4460	CB	TYR	B	193	60.535	47.324	-45.070	1.00	18.17	C
ATOM	4461	CG	TYR	B	193	59.830	47.754	-46.328	1.00	22.60	C
ATOM	4462	CD1	TYR	B	193	60.385	48.732	-47.163	1.00	26.65	C
ATOM	4463	CE1	TYR	B	193	59.729	49.142	-48.318	1.00	23.31	C
ATOM	4464	CZ	TYR	B	193	58.501	48.580	-48.640	1.00	24.72	C
ATOM	4465	OH	TYR	B	193	57.842	48.975	-49.777	1.00	27.26	O
ATOM	4466	CE2	TYR	B	193	57.931	47.612	-47.831	1.00	24.84	C
ATOM	4467	CD2	TYR	B	193	58.597	47.206	-46.681	1.00	23.52	C
ATOM	4468	C	TYR	B	193	62.273	45.745	-45.849	1.00	19.32	C
ATOM	4469	O	TYR	B	193	62.252	45.561	-47.066	1.00	21.59	O
ATOM	4470	N	THR	B	194	63.395	45.854	-45.141	1.00	18.59	N
ATOM	4471	CA	THR	B	194	64.713	45.841	-45.781	1.00	23.88	C
ATOM	4472	CB	THR	B	194	65.599	46.984	-45.243	1.00	26.63	C
ATOM	4473	OG1	THR	B	194	65.785	46.819	-43.834	1.00	25.59	O
ATOM	4474	CG2	THR	B	194	64.894	48.334	-45.374	1.00	28.80	C
ATOM	4475	C	THR	B	194	65.466	44.510	-45.664	1.00	25.04	C
ATOM	4476	O	THR	B	194	66.661	44.443	-45.968	1.00	25.23	O
ATOM	4477	N	THR	B	195	64.785	43.450	-45.242	1.00	22.14	N
ATOM	4478	CA	THR	B	195	65.447	42.148	-45.156	1.00	22.13	C
ATOM	4479	CB	THR	B	195	65.649	41.700	-43.684	1.00	24.66	C
ATOM	4480	OG1	THR	B	195	66.299	40.420	-43.661	1.00	24.37	O
ATOM	4481	CG2	THR	B	195	64.304	41.440	-42.989	1.00	19.81	C
ATOM	4482	C	THR	B	195	64.769	41.061	-45.976	1.00	22.30	C
ATOM	4483	O	THR	B	195	63.540	41.052	-46.135	1.00	17.75	O
ATOM	4484	N	ASP	B	196	65.584	40.159	-46.517	1.00	20.16	N
ATOM	4485	CA	ASP	B	196	65.070	39.007	-47.245	1.00	23.92	C
ATOM	4486	CB	ASP	B	196	65.962	38.662	-48.449	1.00	27.14	C
ATOM	4487	CG	ASP	B	196	67.414	38.383	-48.065	1.00	29.97	C
ATOM	4488	OD1	ASP	B	196	67.806	38.579	-46.896	1.00	33.24	O
ATOM	4489	OD2	ASP	B	196	68.245	37.963	-48.896	1.00	36.70	O
ATOM	4490	C	ASP	B	196	64.868	37.793	-46.336	1.00	20.47	C
ATOM	4491	O	ASP	B	196	64.422	36.745	-46.792	1.00	22.64	O
ATOM	4492	N	ARG	B	197	65.175	37.946	-45.051	1.00	19.26	N
ATOM	4493	CA	ARG	B	197	65.037	36.850	-44.085	1.00	21.36	C
ATOM	4494	CB	ARG	B	197	66.030	37.026	-42.942	1.00	21.84	C
ATOM	4495	CG	ARG	B	197	67.476	36.857	-43.402	1.00	27.60	C
ATOM	4496	CD	ARG	B	197	68.449	36.480	-42.312	1.00	28.77	C
ATOM	4497	NE	ARG	B	197	67.969	35.363	-41.501	1.00	25.50	N
ATOM	4498	CZ	ARG	B	197	68.157	35.269	-40.194	1.00	27.91	C
ATOM	4499	NH1	ARG	B	197	67.683	34.225	-39.535	1.00	27.06	N
ATOM	4500	NH2	ARG	B	197	68.813	36.223	-39.541	1.00	25.26	N
ATOM	4501	C	ARG	B	197	63.616	36.707	-43.542	1.00	18.54	C
ATOM	4502	O	ARG	B	197	63.291	35.735	-42.860	1.00	19.46	O
ATOM	4503	N	VAL	B	198	62.782	37.697	-43.836	1.00	18.33	N
ATOM	4504	CA	VAL	B	198	61.357	37.623	-43.546	1.00	16.04	C
ATOM	4505	CB	VAL	B	198	60.963	38.464	-42.312	1.00	16.04	C
ATOM	4506	CG1	VAL	B	198	59.460	38.353	-42.031	1.00	17.84	C
ATOM	4507	CG2	VAL	B	198	61.766	38.034	-41.084	1.00	16.15	C
ATOM	4508	C	VAL	B	198	60.612	38.139	-44.768	1.00	18.66	C
ATOM	4509	O	VAL	B	198	60.849	39.257	-45.219	1.00	18.06	O
ATOM	4510	N	MET	B	199	59.732	37.311	-45.312	1.00	15.12	N
ATOM	4511	CA	MET	B	199	58.807	37.763	-46.340	1.00	17.80	C
ATOM	4512	CB	MET	B	199	58.614	36.703	-47.428	1.00	20.21	C
ATOM	4513	CG	MET	B	199	57.533	37.085	-48.457	1.00	22.76	C
ATOM	4514	SD	MET	B	199	57.461	36.017	-49.887	1.00	34.08	S
ATOM	4515	CE	MET	B	199	58.906	36.506	-50.739	1.00	27.82	C
ATOM	4516	C	MET	B	199	57.479	38.041	-45.665	1.00	18.23	C
ATOM	4517	O	MET	B	199	56.991	37.217	-44.893	1.00	17.44	O
ATOM	4518	N	THR	B	200	56.906	39.203	-45.941	1.00	14.34	N
ATOM	4519	CA	THR	B	200	55.600	39.546	-45.388	1.00	16.48	C
ATOM	4520	CB	THR	B	200	55.603	40.917	-44.654	1.00	17.31	C

ATOM	4521	OG1	THR	B	200	56.150	41.936	-45.504	1.00	22.06	O
ATOM	4522	CG2	THR	B	200	56.553	40.901	-43.463	1.00	18.84	C
ATOM	4523	C	THR	B	200	54.581	39.527	-46.513	1.00	19.97	C
ATOM	4524	O	THR	B	200	54.831	40.051	-47.611	1.00	19.06	O
ATOM	4525	N	VAL	B	201	53.450	38.881	-46.244	1.00	14.00	N
ATOM	4526	CA	VAL	B	201	52.372	38.773	-47.208	1.00	14.13	C
ATOM	4527	CB	VAL	B	201	52.205	37.330	-47.743	1.00	15.28	C
ATOM	4528	CG1	VAL	B	201	51.087	37.260	-48.769	1.00	18.38	C
ATOM	4529	CG2	VAL	B	201	53.526	36.806	-48.341	1.00	16.94	C
ATOM	4530	C	VAL	B	201	51.096	39.218	-46.516	1.00	18.48	C
ATOM	4531	O	VAL	B	201	50.628	38.568	-45.579	1.00	16.84	O
ATOM	4532	N	SER	B	202	50.550	40.344	-46.961	1.00	16.27	N
ATOM	4533	CA	SER	B	202	49.316	40.856	-46.383	1.00	17.25	C
ATOM	4534	CB	SER	B	202	49.553	42.214	-45.713	1.00	15.12	C
ATOM	4535	OG	SER	B	202	48.338	42.727	-45.181	1.00	17.17	O
ATOM	4536	C	SER	B	202	48.207	40.969	-47.418	1.00	19.64	C
ATOM	4537	O	SER	B	202	48.408	41.500	-48.520	1.00	14.36	O
ATOM	4538	N	PHE	B	203	47.037	40.459	-47.045	1.00	15.42	N
ATOM	4539	CA	PHE	B	203	45.808	40.669	-47.796	1.00	16.52	C
ATOM	4540	CB	PHE	B	203	45.070	39.345	-47.964	1.00	16.84	C
ATOM	4541	CG	PHE	B	203	45.909	38.256	-48.580	1.00	18.57	C
ATOM	4542	CD1	PHE	B	203	46.762	37.481	-47.796	1.00	18.97	C
ATOM	4543	CE1	PHE	B	203	47.545	36.473	-48.372	1.00	19.40	C
ATOM	4544	CZ	PHE	B	203	47.476	36.236	-49.747	1.00	19.02	C
ATOM	4545	CE2	PHE	B	203	46.628	37.003	-50.537	1.00	20.36	C
ATOM	4546	CD2	PHE	B	203	45.849	38.014	-49.945	1.00	20.45	C
ATOM	4547	C	PHE	B	203	44.964	41.625	-46.972	1.00	14.94	C
ATOM	4548	O	PHE	B	203	44.732	41.380	-45.803	1.00	16.25	O
ATOM	4549	N	HIS	B	204	44.497	42.716	-47.569	1.00	15.10	N
ATOM	4550	CA	HIS	B	204	43.826	43.746	-46.776	1.00	14.34	C
ATOM	4551	CB	HIS	B	204	44.856	44.595	-46.018	1.00	14.15	C
ATOM	4552	CG	HIS	B	204	45.996	45.041	-46.872	1.00	18.06	C
ATOM	4553	ND1	HIS	B	204	47.176	44.334	-46.965	1.00	15.83	N
ATOM	4554	CE1	HIS	B	204	47.986	44.945	-47.810	1.00	19.08	C
ATOM	4555	NE2	HIS	B	204	47.367	46.013	-48.284	1.00	18.08	N
ATOM	4556	CD2	HIS	B	204	46.120	46.096	-47.714	1.00	15.80	C
ATOM	4557	C	HIS	B	204	42.977	44.658	-47.640	1.00	16.49	C
ATOM	4558	O	HIS	B	204	43.217	44.780	-48.851	1.00	14.56	O
ATOM	4559	N	LYS	B	205	41.979	45.270	-47.006	1.00	14.90	N
ATOM	4560	CA	LYS	B	205	41.241	46.360	-47.620	1.00	19.53	C
ATOM	4561	CB	LYS	B	205	40.045	46.789	-46.763	1.00	22.09	C
ATOM	4562	CG	LYS	B	205	39.448	48.123	-47.232	1.00	27.89	C
ATOM	4563	CD	LYS	B	205	38.027	48.333	-46.767	1.00	34.79	C
ATOM	4564	CE	LYS	B	205	37.533	49.741	-47.131	1.00	38.30	C
ATOM	4565	NZ	LYS	B	205	37.466	49.968	-48.599	1.00	39.75	N
ATOM	4566	C	LYS	B	205	42.192	47.535	-47.800	1.00	19.94	C
ATOM	4567	O	LYS	B	205	42.938	47.906	-46.878	1.00	17.66	O
ATOM	4568	N	TYR	B	206	42.157	48.120	-48.991	1.00	20.18	N
ATOM	4569	CA	TYR	B	206	43.010	49.246	-49.316	1.00	17.30	C
ATOM	4570	CB	TYR	B	206	44.179	48.785	-50.191	1.00	20.66	C
ATOM	4571	CG	TYR	B	206	45.196	49.861	-50.482	1.00	25.57	C
ATOM	4572	CD1	TYR	B	206	45.164	50.570	-51.686	1.00	30.67	C
ATOM	4573	CE1	TYR	B	206	46.097	51.565	-51.960	1.00	31.11	C
ATOM	4574	CZ	TYR	B	206	47.069	51.862	-51.025	1.00	30.46	C
ATOM	4575	OH	TYR	B	206	47.987	52.847	-51.287	1.00	31.69	O
ATOM	4576	CE2	TYR	B	206	47.124	51.174	-49.819	1.00	28.88	C
ATOM	4577	CD2	TYR	B	206	46.190	50.178	-49.558	1.00	25.19	C
ATOM	4578	C	TYR	B	206	42.202	50.328	-50.038	1.00	22.27	C
ATOM	4579	O	TYR	B	206	41.352	50.022	-50.878	1.00	23.37	O
ATOM	4580	N	GLY	B	207	42.489	51.582	-49.709	1.00	26.00	N
ATOM	4581	CA	GLY	B	207	41.824	52.722	-50.315	1.00	26.82	C
ATOM	4582	C	GLY	B	207	41.146	53.557	-49.252	1.00	28.96	C
ATOM	4583	O	GLY	B	207	39.996	53.294	-48.899	1.00	32.68	O

ATOM	4584	N	GLU	B	208	41.873	54.546	-48.734	1.00	32.89	N
ATOM	4585	CA	GLU	B	208	41.380	55.454	-47.689	1.00	38.40	C
ATOM	4586	CB	GLU	B	208	40.322	56.411	-48.252	1.00	44.37	C
ATOM	4587	CG	GLU	B	208	40.899	57.477	-49.174	1.00	51.34	C
ATOM	4588	CD	GLU	B	208	39.843	58.406	-49.746	1.00	56.00	C
ATOM	4589	OE1	GLU	B	208	38.925	58.812	-48.998	1.00	57.32	O
ATOM	4590	OE2	GLU	B	208	39.935	58.736	-50.948	1.00	58.73	O
ATOM	4591	C	GLU	B	208	40.867	54.690	-46.463	1.00	37.69	C
ATOM	4592	O	GLU	B	208	39.778	54.949	-45.944	1.00	38.26	O
ATOM	4593	N	TYR	B	209	41.680	53.738	-46.017	1.00	31.97	N
ATOM	4594	CA	TYR	B	209	41.323	52.827	-44.939	1.00	27.56	C
ATOM	4595	CB	TYR	B	209	40.946	51.470	-45.534	1.00	27.63	C
ATOM	4596	CG	TYR	B	209	40.120	50.579	-44.630	1.00	28.79	C
ATOM	4597	CD1	TYR	B	209	40.631	49.369	-44.166	1.00	28.55	C
ATOM	4598	CE1	TYR	B	209	39.877	48.538	-43.343	1.00	26.04	C
ATOM	4599	CZ	TYR	B	209	38.600	48.917	-42.977	1.00	31.09	C
ATOM	4600	OH	TYR	B	209	37.862	48.096	-42.163	1.00	37.08	O
ATOM	4601	CE2	TYR	B	209	38.063	50.113	-43.423	1.00	32.84	C
ATOM	4602	CD2	TYR	B	209	38.825	50.936	-44.251	1.00	32.55	C
ATOM	4603	C	TYR	B	209	42.537	52.688	-44.035	1.00	23.31	C
ATOM	4604	O	TYR	B	209	43.669	52.674	-44.523	1.00	23.94	O
ATOM	4605	N	PHE	B	210	42.310	52.590	-42.726	1.00	21.06	N
ATOM	4606	CA	PHE	B	210	43.402	52.387	-41.777	1.00	20.00	C
ATOM	4607	CB	PHE	B	210	42.851	52.225	-40.350	1.00	21.32	C
ATOM	4608	CG	PHE	B	210	43.914	52.248	-39.297	1.00	22.37	C
ATOM	4609	CD1	PHE	B	210	44.475	51.057	-38.831	1.00	20.06	C
ATOM	4610	CE1	PHE	B	210	45.482	51.073	-37.870	1.00	18.89	C
ATOM	4611	CZ	PHE	B	210	45.946	52.284	-37.374	1.00	19.37	C
ATOM	4612	CE2	PHE	B	210	45.399	53.486	-37.845	1.00	23.11	C
ATOM	4613	CD2	PHE	B	210	44.396	53.457	-38.805	1.00	21.35	C
ATOM	4614	C	PHE	B	210	44.236	51.151	-42.166	1.00	16.50	C
ATOM	4615	O	PHE	B	210	43.664	50.154	-42.599	1.00	20.51	O
ATOM	4616	N	PRO	B	211	45.566	51.192	-42.029	1.00	19.04	N
ATOM	4617	CA	PRO	B	211	46.343	52.385	-41.670	1.00	18.95	C
ATOM	4618	CB	PRO	B	211	47.544	51.782	-40.924	1.00	20.57	C
ATOM	4619	CG	PRO	B	211	47.772	50.477	-41.608	1.00	21.47	C
ATOM	4620	CD	PRO	B	211	46.429	50.002	-42.146	1.00	19.76	C
ATOM	4621	C	PRO	B	211	46.844	53.210	-42.868	1.00	22.76	C
ATOM	4622	O	PRO	B	211	47.636	54.133	-42.655	1.00	27.93	O
ATOM	4623	N	GLY	B	212	46.402	52.883	-44.082	1.00	22.80	N
ATOM	4624	CA	GLY	B	212	46.712	53.678	-45.263	1.00	25.36	C
ATOM	4625	C	GLY	B	212	47.931	53.209	-46.033	1.00	28.41	C
ATOM	4626	O	GLY	B	212	48.315	53.819	-47.034	1.00	26.92	O
ATOM	4627	N	THR	B	213	48.540	52.121	-45.571	1.00	22.74	N
ATOM	4628	CA	THR	B	213	49.727	51.566	-46.224	1.00	21.83	C
ATOM	4629	CB	THR	B	213	50.837	51.323	-45.193	1.00	24.10	C
ATOM	4630	OG1	THR	B	213	50.276	50.669	-44.053	1.00	20.79	O
ATOM	4631	CG2	THR	B	213	51.365	52.651	-44.621	1.00	27.28	C
ATOM	4632	C	THR	B	213	49.347	50.260	-46.913	1.00	20.41	C
ATOM	4633	O	THR	B	213	48.177	49.875	-46.925	1.00	21.90	O
ATOM	4634	N	GLY	B	214	50.329	49.575	-47.486	1.00	17.51	N
ATOM	4635	CA	GLY	B	214	50.070	48.292	-48.110	1.00	17.30	C
ATOM	4636	C	GLY	B	214	49.634	48.389	-49.556	1.00	18.39	C
ATOM	4637	O	GLY	B	214	48.813	47.601	-50.024	1.00	19.22	O
ATOM	4638	N	ASP	B	215	50.200	49.354	-50.274	1.00	19.22	N
ATOM	4639	CA	ASP	B	215	49.972	49.455	-51.707	1.00	21.18	C
ATOM	4640	CB	ASP	B	215	50.593	50.745	-52.257	1.00	21.43	C
ATOM	4641	CG	ASP	B	215	50.106	51.077	-53.655	1.00	25.69	C
ATOM	4642	OD1	ASP	B	215	50.508	50.385	-54.603	1.00	24.96	O
ATOM	4643	OD2	ASP	B	215	49.318	52.007	-53.904	1.00	28.95	O
ATOM	4644	C	ASP	B	215	50.574	48.238	-52.399	1.00	19.97	C
ATOM	4645	O	ASP	B	215	51.570	47.676	-51.934	1.00	22.25	O
ATOM	4646	N	LEU	B	216	49.954	47.835	-53.502	1.00	19.48	N

ATOM	4647	CA	LEU	B	216	50.487	46.799	-54.389	1.00	20.76	C
ATOM	4648	CB	LEU	B	216	49.657	46.786	-55.677	1.00	24.01	C
ATOM	4649	CG	LEU	B	216	50.036	45.851	-56.821	1.00	26.06	C
ATOM	4650	CD1	LEU	B	216	49.730	44.412	-56.436	1.00	30.00	C
ATOM	4651	CD2	LEU	B	216	49.285	46.234	-58.087	1.00	30.84	C
ATOM	4652	C	LEU	B	216	51.969	47.016	-54.735	1.00	18.98	C
ATOM	4653	O	LEU	B	216	52.743	46.060	-54.886	1.00	21.02	O
ATOM	4654	N	ARG	B	217	52.355	48.282	-54.864	1.00	18.76	N
ATOM	4655	CA	ARG	B	217	53.701	48.637	-55.313	1.00	22.30	C
ATOM	4656	CB	ARG	B	217	53.671	49.974	-56.055	1.00	24.03	C
ATOM	4657	CG	ARG	B	217	52.927	49.908	-57.365	1.00	27.15	C
ATOM	4658	CD	ARG	B	217	51.556	50.515	-57.276	1.00	37.44	C
ATOM	4659	NE	ARG	B	217	51.512	51.790	-57.961	1.00	37.73	N
ATOM	4660	CZ	ARG	B	217	50.786	52.837	-57.599	1.00	35.30	C
ATOM	4661	NH1	ARG	B	217	50.010	52.815	-56.517	1.00	30.26	N
ATOM	4662	NH2	ARG	B	217	50.848	53.925	-58.341	1.00	27.71	N
ATOM	4663	C	ARG	B	217	54.721	48.695	-54.183	1.00	25.14	C
ATOM	4664	O	ARG	B	217	55.917	48.883	-54.430	1.00	22.96	O
ATOM	4665	N	ASP	B	218	54.252	48.553	-52.945	1.00	24.09	N
ATOM	4666	CA	ASP	B	218	55.157	48.458	-51.806	1.00	23.29	C
ATOM	4667	CB	ASP	B	218	54.439	48.831	-50.506	1.00	25.20	C
ATOM	4668	CG	ASP	B	218	54.035	50.296	-50.467	1.00	30.62	C
ATOM	4669	OD1	ASP	B	218	53.126	50.652	-49.680	1.00	26.04	O
ATOM	4670	OD2	ASP	B	218	54.574	51.163	-51.191	1.00	30.27	O
ATOM	4671	C	ASP	B	218	55.700	47.036	-51.761	1.00	25.43	C
ATOM	4672	O	ASP	B	218	55.029	46.120	-51.288	1.00	23.11	O
ATOM	4673	N	ILE	B	219	56.912	46.857	-52.278	1.00	22.50	N
ATOM	4674	CA	ILE	B	219	57.467	45.516	-52.479	1.00	20.86	C
ATOM	4675	CB	ILE	B	219	57.779	45.276	-53.981	1.00	24.87	C
ATOM	4676	CG1	ILE	B	219	58.812	46.294	-54.488	1.00	26.63	C
ATOM	4677	CD1	ILE	B	219	59.507	45.888	-55.774	1.00	33.02	C
ATOM	4678	CG2	ILE	B	219	56.483	45.274	-54.802	1.00	27.46	C
ATOM	4679	C	ILE	B	219	58.705	45.209	-51.641	1.00	19.36	C
ATOM	4680	O	ILE	B	219	59.330	44.150	-51.812	1.00	20.33	O
ATOM	4681	N	GLY	B	220	59.056	46.124	-50.743	1.00	19.84	N
ATOM	4682	CA	GLY	B	220	60.279	45.997	-49.970	1.00	23.43	C
ATOM	4683	C	GLY	B	220	61.352	46.918	-50.515	1.00	25.46	C
ATOM	4684	O	GLY	B	220	61.161	47.541	-51.560	1.00	23.34	O
ATOM	4685	N	ALA	B	221	62.476	47.010	-49.807	1.00	24.12	N
ATOM	4686	CA	ALA	B	221	63.580	47.876	-50.221	1.00	24.96	C
ATOM	4687	CB	ALA	B	221	63.464	49.245	-49.552	1.00	24.77	C
ATOM	4688	C	ALA	B	221	64.915	47.220	-49.880	1.00	25.80	C
ATOM	4689	O	ALA	B	221	64.990	46.402	-48.957	1.00	25.46	O
ATOM	4690	N	GLY	B	222	65.957	47.566	-50.638	1.00	27.38	N
ATOM	4691	CA	GLY	B	222	67.292	47.033	-50.421	1.00	29.04	C
ATOM	4692	C	GLY	B	222	67.344	45.528	-50.580	1.00	26.37	C
ATOM	4693	O	GLY	B	222	66.832	44.976	-51.557	1.00	28.24	O
ATOM	4694	N	LYS	B	223	67.957	44.857	-49.611	1.00	28.06	N
ATOM	4695	CA	LYS	B	223	68.002	43.398	-49.604	1.00	29.18	C
ATOM	4696	CB	LYS	B	223	68.813	42.892	-48.406	1.00	32.72	C
ATOM	4697	CD	LYS	B	223	69.500	41.560	-48.652	1.00	42.07	C
ATOM	4698	CG	LYS	B	223	70.688	41.351	-47.720	1.00	45.41	C
ATOM	4699	CE	LYS	B	223	71.481	40.114	-48.119	1.00	50.39	C
ATOM	4700	NZ	LYS	B	223	72.751	39.995	-47.349	1.00	55.17	N
ATOM	4701	C	LYS	B	223	66.588	42.808	-49.577	1.00	27.08	C
ATOM	4702	O	LYS	B	223	66.368	41.687	-50.029	1.00	25.68	O
ATOM	4703	N	GLY	B	224	65.638	43.582	-49.054	1.00	23.55	N
ATOM	4704	CA	GLY	B	224	64.257	43.139	-48.931	1.00	24.66	C
ATOM	4705	C	GLY	B	224	63.365	43.420	-50.129	1.00	21.44	C
ATOM	4706	O	GLY	B	224	62.169	43.161	-50.062	1.00	19.70	O
ATOM	4707	N	LYS	B	225	63.930	43.935	-51.225	1.00	22.44	N
ATOM	4708	CA	LYS	B	225	63.138	44.184	-52.434	1.00	23.48	C
ATOM	4709	CB	LYS	B	225	63.956	44.906	-53.514	1.00	27.44	C

ATOM	4710	CG	LYS	B	225	63.101	45.718	-54.476	1.00	31.29	C
ATOM	4711	CD	LYS	B	225	63.952	46.447	-55.505	1.00	39.08	C
ATOM	4712	CE	LYS	B	225	63.109	46.938	-56.671	1.00	43.00	C
ATOM	4713	NZ	LYS	B	225	63.029	48.426	-56.701	1.00	48.59	N
ATOM	4714	C	LYS	B	225	62.557	42.888	-52.991	1.00	23.85	C
ATOM	4715	O	LYS	B	225	63.286	41.920	-53.211	1.00	24.60	O
ATOM	4716	N	TYR	B	226	61.239	42.894	-53.203	1.00	23.47	N
ATOM	4717	CA	TYR	B	226	60.450	41.722	-53.613	1.00	24.71	C
ATOM	4718	CB	TYR	B	226	61.089	40.980	-54.796	1.00	26.80	C
ATOM	4719	CG	TYR	B	226	61.170	41.831	-56.040	1.00	31.24	C
ATOM	4720	CD1	TYR	B	226	60.014	42.210	-56.720	1.00	34.45	C
ATOM	4721	CE1	TYR	B	226	60.078	43.002	-57.863	1.00	39.19	C
ATOM	4722	CZ	TYR	B	226	61.309	43.427	-58.329	1.00	41.37	C
ATOM	4723	OH	TYR	B	226	61.365	44.214	-59.459	1.00	45.37	O
ATOM	4724	CE2	TYR	B	226	62.475	43.069	-57.668	1.00	37.82	C
ATOM	4725	CD2	TYR	B	226	62.400	42.276	-56.524	1.00	36.04	C
ATOM	4726	C	TYR	B	226	60.098	40.755	-52.469	1.00	21.31	C
ATOM	4727	O	TYR	B	226	59.493	39.706	-52.710	1.00	25.00	O
ATOM	4728	N	TYR	B	227	60.455	41.122	-51.242	1.00	21.24	N
ATOM	4729	CA	TYR	B	227	60.144	40.295	-50.068	1.00	22.04	C
ATOM	4730	CB	TYR	B	227	61.399	40.051	-49.230	1.00	21.71	C
ATOM	4731	CG	TYR	B	227	62.392	39.212	-49.980	1.00	20.76	C
ATOM	4732	CD1	TYR	B	227	63.384	39.806	-50.759	1.00	25.18	C
ATOM	4733	CE1	TYR	B	227	64.299	39.034	-51.476	1.00	26.24	C
ATOM	4734	CZ	TYR	B	227	64.217	37.655	-51.426	1.00	28.58	C
ATOM	4735	OH	TYR	B	227	65.121	36.891	-52.140	1.00	28.83	O
ATOM	4736	CE2	TYR	B	227	63.233	37.037	-50.664	1.00	25.59	C
ATOM	4737	CD2	TYR	B	227	62.322	37.820	-49.948	1.00	22.91	C
ATOM	4738	C	TYR	B	227	58.994	40.839	-49.216	1.00	24.18	C
ATOM	4739	O	TYR	B	227	58.725	40.330	-48.127	1.00	21.71	O
ATOM	4740	N	ALA	B	228	58.323	41.871	-49.724	1.00	19.86	N
ATOM	4741	CA	ALA	B	228	57.058	42.326	-49.150	1.00	18.28	C
ATOM	4742	CB	ALA	B	228	57.155	43.773	-48.658	1.00	20.13	C
ATOM	4743	C	ALA	B	228	55.998	42.185	-50.227	1.00	19.46	C
ATOM	4744	O	ALA	B	228	56.189	42.634	-51.365	1.00	20.10	O
ATOM	4745	N	VAL	B	229	54.892	41.536	-49.872	1.00	16.15	N
ATOM	4746	CA	VAL	B	229	53.849	41.197	-50.826	1.00	17.32	C
ATOM	4747	CB	VAL	B	229	53.737	39.656	-51.046	1.00	20.03	C
ATOM	4748	CG1	VAL	B	229	52.663	39.324	-52.076	1.00	21.62	C
ATOM	4749	CG2	VAL	B	229	55.075	39.054	-51.480	1.00	22.80	C
ATOM	4750	C	VAL	B	229	52.532	41.741	-50.298	1.00	19.18	C
ATOM	4751	O	VAL	B	229	52.095	41.351	-49.226	1.00	18.46	O
ATOM	4752	N	ASN	B	230	51.913	42.651	-51.052	1.00	14.89	N
ATOM	4753	CA	ASN	B	230	50.654	43.261	-50.641	1.00	17.60	C
ATOM	4754	CB	ASN	B	230	50.861	44.758	-50.381	1.00	16.56	C
ATOM	4755	CG	ASN	B	230	51.675	45.010	-49.125	1.00	18.84	C
ATOM	4756	OD1	ASN	B	230	51.250	44.652	-48.025	1.00	21.53	O
ATOM	4757	ND2	ASN	B	230	52.868	45.589	-49.284	1.00	18.48	N
ATOM	4758	C	ASN	B	230	49.536	43.032	-51.645	1.00	18.01	C
ATOM	4759	O	ASN	B	230	49.693	43.321	-52.836	1.00	17.76	O
ATOM	4760	N	PHE	B	231	48.420	42.486	-51.160	1.00	15.46	N
ATOM	4761	CA	PHE	B	231	47.233	42.272	-51.986	1.00	14.44	C
ATOM	4762	CB	PHE	B	231	46.774	40.811	-51.973	1.00	16.00	C
ATOM	4763	CG	PHE	B	231	45.944	40.429	-53.182	1.00	16.80	C
ATOM	4764	CD1	PHE	B	231	46.334	39.382	-54.004	1.00	17.53	C
ATOM	4765	CE1	PHE	B	231	45.582	39.039	-55.132	1.00	18.09	C
ATOM	4766	CZ	PHE	B	231	44.429	39.746	-55.442	1.00	17.95	C
ATOM	4767	CE2	PHE	B	231	44.025	40.800	-54.633	1.00	20.66	C
ATOM	4768	CD2	PHE	B	231	44.788	41.137	-53.509	1.00	17.61	C
ATOM	4769	C	PHE	B	231	46.100	43.186	-51.518	1.00	18.59	C
ATOM	4770	O	PHE	B	231	45.377	42.867	-50.564	1.00	16.03	O
ATOM	4771	N	PRO	B	232	45.964	44.331	-52.178	1.00	16.21	N
ATOM	4772	CA	PRO	B	232	44.927	45.297	-51.825	1.00	18.79	C

ATOM	4773	CB	PRO B 232	45.381	46.579	-52.532	1.00	19.74	C
ATOM	4774	CG	PRO B 232	46.302	46.151	-53.618	1.00	20.63	C
ATOM	4775	CD	PRO B 232	46.812	44.793	-53.293	1.00	17.58	C
ATOM	4776	C	PRO B 232	43.573	44.831	-52.332	1.00	18.01	C
ATOM	4777	O	PRO B 232	43.462	44.396	-53.480	1.00	19.75	O
ATOM	4778	N	MET B 233	42.566	44.903	-51.467	1.00	17.52	N
ATOM	4779	CA	MET B 233	41.222	44.457	-51.800	1.00	15.99	C
ATOM	4780	CB	MET B 233	40.856	43.218	-50.975	1.00	18.25	C
ATOM	4781	CG	MET B 233	41.656	41.969	-51.327	1.00	24.52	C
ATOM	4782	SD	MET B 233	41.496	40.713	-50.050	1.00	27.92	S
ATOM	4783	CE	MET B 233	42.182	39.260	-50.886	1.00	29.30	C
ATOM	4784	C	MET B 233	40.201	45.557	-51.540	1.00	16.59	C
ATOM	4785	O	MET B 233	40.479	46.524	-50.838	1.00	23.57	O
ATOM	4786	N	ARG B 234	39.012	45.382	-52.110	1.00	18.03	N
ATOM	4787	CA	ARG B 234	37.906	46.302	-51.927	1.00	16.88	C
ATOM	4788	CB	ARG B 234	37.266	46.649	-53.283	1.00	23.35	C
ATOM	4789	CG	ARG B 234	38.232	47.141	-54.355	1.00	27.98	C
ATOM	4790	CD	ARG B 234	38.498	48.627	-54.310	1.00	34.85	C
ATOM	4791	NE	ARG B 234	39.791	48.897	-53.711	1.00	40.91	N
ATOM	4792	CZ	ARG B 234	40.891	49.243	-54.370	1.00	35.19	C
ATOM	4793	NH1	ARG B 234	41.998	49.443	-53.683	1.00	29.57	N
ATOM	4794	NH2	ARG B 234	40.902	49.397	-55.689	1.00	34.48	N
ATOM	4795	C	ARG B 234	36.862	45.656	-51.026	1.00	17.47	C
ATOM	4796	O	ARG B 234	36.945	44.459	-50.724	1.00	17.33	O
ATOM	4797	N	ASP B 235	35.880	46.452	-50.615	1.00	18.55	N
ATOM	4798	CA	ASP B 235	34.741	45.976	-49.815	1.00	19.36	C
ATOM	4799	CB	ASP B 235	33.642	47.049	-49.734	1.00	26.88	C
ATOM	4800	CG	ASP B 235	34.091	48.311	-49.050	1.00	36.13	C
ATOM	4801	OD1	ASP B 235	35.218	48.343	-48.525	1.00	38.24	O
ATOM	4802	OD2	ASP B 235	33.374	49.336	-48.990	1.00	41.04	O
ATOM	4803	C	ASP B 235	34.076	44.728	-50.368	1.00	20.75	C
ATOM	4804	O	ASP B 235	33.987	44.537	-51.583	1.00	19.34	O
ATOM	4805	N	GLY B 236	33.588	43.894	-49.454	1.00	16.84	N
ATOM	4806	CA	GLY B 236	32.646	42.846	-49.787	1.00	16.89	C
ATOM	4807	C	GLY B 236	33.218	41.565	-50.343	1.00	17.08	C
ATOM	4808	O	GLY B 236	32.461	40.733	-50.855	1.00	17.92	O
ATOM	4809	N	ILE B 237	34.538	41.389	-50.266	1.00	17.13	N
ATOM	4810	CA	ILE B 237	35.128	40.145	-50.752	1.00	18.09	C
ATOM	4811	CB	ILE B 237	36.681	40.163	-50.657	1.00	21.95	C
ATOM	4812	CG1	ILE B 237	37.269	39.062	-51.547	1.00	25.69	C
ATOM	4813	CD1	ILE B 237	38.596	39.407	-52.162	1.00	30.38	C
ATOM	4814	CG2	ILE B 237	37.156	40.000	-49.215	1.00	18.58	C
ATOM	4815	C	ILE B 237	34.499	38.941	-50.024	1.00	18.52	C
ATOM	4816	O	ILE B 237	34.219	39.005	-48.825	1.00	17.05	O
ATOM	4817	N	ASP B 238	34.245	37.868	-50.768	1.00	17.17	N
ATOM	4818	CA	ASP B 238	33.594	36.682	-50.219	1.00	20.94	C
ATOM	4819	CB	ASP B 238	32.281	36.370	-50.966	1.00	25.98	C
ATOM	4820	CG	ASP B 238	32.463	36.223	-52.480	1.00	34.97	C
ATOM	4821	OD1	ASP B 238	33.506	35.713	-52.944	1.00	34.59	O
ATOM	4822	OD2	ASP B 238	31.586	36.577	-53.297	1.00	40.46	O
ATOM	4823	C	ASP B 238	34.531	35.478	-50.226	1.00	19.85	C
ATOM	4824	O	ASP B 238	35.650	35.547	-50.741	1.00	21.00	O
ATOM	4825	N	ASP B 239	34.064	34.381	-49.642	1.00	19.25	N
ATOM	4826	CA	ASP B 239	34.837	33.148	-49.522	1.00	23.20	C
ATOM	4827	CB	ASP B 239	33.943	32.036	-48.985	1.00	22.49	C
ATOM	4828	CG	ASP B 239	33.557	32.235	-47.543	1.00	24.64	C
ATOM	4829	OD1	ASP B 239	34.095	33.151	-46.871	1.00	22.83	O
ATOM	4830	OD2	ASP B 239	32.722	31.492	-46.992	1.00	25.60	O
ATOM	4831	C	ASP B 239	35.453	32.667	-50.834	1.00	21.38	C
ATOM	4832	O	ASP B 239	36.643	32.356	-50.889	1.00	20.73	O
ATOM	4833	N	GLU B 240	34.623	32.583	-51.871	1.00	25.94	N
ATOM	4834	CA	GLU B 240	35.036	32.088	-53.183	1.00	30.48	C
ATOM	4835	CB	GLU B 240	33.829	32.031	-54.129	1.00	36.05	C

ATOM	4836	CG	GLU	B	240	34.059	31.255	-55.420	1.00	48.26	C
ATOM	4837	CD	GLU	B	240	32.828	31.217	-56.314	1.00	53.47	C
ATOM	4838	OE1	GLU	B	240	32.400	32.289	-56.802	1.00	56.32	O
ATOM	4839	OE2	GLU	B	240	32.286	30.112	-56.532	1.00	57.70	O
ATOM	4840	C	GLU	B	240	36.163	32.939	-53.778	1.00	25.36	C
ATOM	4841	O	GLU	B	240	37.188	32.404	-54.200	1.00	28.41	O
ATOM	4842	N	SER	B	241	35.974	34.258	-53.778	1.00	22.49	N
ATOM	4843	CA	SER	B	241	36.962	35.195	-54.313	1.00	25.95	C
ATOM	4844	CB	SER	B	241	36.387	36.609	-54.374	1.00	27.19	C
ATOM	4845	OG	SER	B	241	35.230	36.646	-55.190	1.00	32.80	O
ATOM	4846	C	SER	B	241	38.275	35.193	-53.524	1.00	23.35	C
ATOM	4847	O	SER	B	241	39.359	35.199	-54.110	1.00	23.32	O
ATOM	4848	N	TYR	B	242	38.169	35.192	-52.198	1.00	20.82	N
ATOM	4849	CA	TYR	B	242	39.340	35.151	-51.331	1.00	21.99	C
ATOM	4850	CB	TYR	B	242	38.916	35.269	-49.869	1.00	19.70	C
ATOM	4851	CG	TYR	B	242	39.973	35.836	-48.957	1.00	16.48	C
ATOM	4852	CD1	TYR	B	242	39.956	37.186	-48.598	1.00	19.09	C
ATOM	4853	CE1	TYR	B	242	40.926	37.718	-47.749	1.00	18.72	C
ATOM	4854	CZ	TYR	B	242	41.914	36.890	-47.239	1.00	19.07	C
ATOM	4855	OH	TYR	B	242	42.865	37.416	-46.393	1.00	20.07	O
ATOM	4856	CE2	TYR	B	242	41.947	35.548	-47.569	1.00	19.76	C
ATOM	4857	CD2	TYR	B	242	40.975	35.023	-48.422	1.00	18.85	C
ATOM	4858	C	TYR	B	242	40.125	33.858	-51.543	1.00	20.42	C
ATOM	4859	O	TYR	B	242	41.351	33.886	-51.683	1.00	22.59	O
ATOM	4860	N	GLY	B	243	39.405	32.740	-51.582	1.00	21.71	N
ATOM	4861	CA	GLY	B	243	39.997	31.424	-51.760	1.00	27.56	C
ATOM	4862	C	GLY	B	243	40.755	31.286	-53.065	1.00	28.78	C
ATOM	4863	O	GLY	B	243	41.831	30.685	-53.096	1.00	29.82	O
ATOM	4864	N	GLN	B	244	40.195	31.867	-54.128	1.00	26.94	N
ATOM	4865	CA	GLN	B	244	40.780	31.834	-55.468	1.00	31.15	C
ATOM	4866	CB	GLN	B	244	39.782	32.360	-56.505	1.00	38.58	C
ATOM	4867	CG	GLN	B	244	38.684	31.366	-56.912	1.00	49.05	C
ATOM	4868	CD	GLN	B	244	39.223	30.107	-57.581	1.00	55.20	C
ATOM	4869	OE1	GLN	B	244	40.097	30.178	-58.449	1.00	57.57	O
ATOM	4870	NE2	GLN	B	244	38.700	28.954	-57.178	1.00	56.68	N
ATOM	4871	C	GLN	B	244	42.074	32.636	-55.559	1.00	29.14	C
ATOM	4872	O	GLN	B	244	42.860	32.454	-56.490	1.00	29.13	O
ATOM	4873	N	ILE	B	245	42.281	33.534	-54.601	1.00	25.02	N
ATOM	4874	CA	ILE	B	245	43.487	34.351	-54.573	1.00	25.49	C
ATOM	4875	CB	ILE	B	245	43.115	35.846	-54.393	1.00	28.54	C
ATOM	4876	CG1	ILE	B	245	43.318	36.586	-55.717	1.00	36.08	C
ATOM	4877	CD1	ILE	B	245	42.615	35.960	-56.928	1.00	37.93	C
ATOM	4878	CG2	ILE	B	245	43.901	36.514	-53.261	1.00	29.33	C
ATOM	4879	C	ILE	B	245	44.508	33.860	-53.553	1.00	22.76	C
ATOM	4880	O	ILE	B	245	45.706	33.835	-53.844	1.00	22.82	O
ATOM	4881	N	PHE	B	246	44.034	33.445	-52.379	1.00	20.05	N
ATOM	4882	CA	PHE	B	246	44.924	33.044	-51.290	1.00	18.46	C
ATOM	4883	CB	PHE	B	246	44.125	32.812	-49.996	1.00	18.55	C
ATOM	4884	CG	PHE	B	246	44.985	32.613	-48.772	1.00	17.14	C
ATOM	4885	CD1	PHE	B	246	45.309	31.326	-48.333	1.00	17.04	C
ATOM	4886	CE1	PHE	B	246	46.111	31.129	-47.195	1.00	17.11	C
ATOM	4887	CZ	PHE	B	246	46.579	32.233	-46.484	1.00	14.31	C
ATOM	4888	CE2	PHE	B	246	46.261	33.525	-46.917	1.00	15.82	C
ATOM	4889	CD2	PHE	B	246	45.465	33.709	-48.051	1.00	16.40	C
ATOM	4890	C	PHE	B	246	45.761	31.810	-51.641	1.00	17.34	C
ATOM	4891	O	PHE	B	246	46.991	31.844	-51.538	1.00	18.76	O
ATOM	4892	N	LYS	B	247	45.100	30.724	-52.036	1.00	17.85	N
ATOM	4893	CA	LYS	B	247	45.805	29.468	-52.318	1.00	21.78	C
ATOM	4894	CB	LYS	B	247	44.830	28.339	-52.679	1.00	24.48	C
ATOM	4895	CG	LYS	B	247	45.434	26.933	-52.571	1.00	31.18	C
ATOM	4896	CD	LYS	B	247	44.458	25.866	-53.069	1.00	35.18	C
ATOM	4897	CE	LYS	B	247	45.135	24.501	-53.194	1.00	42.83	C
ATOM	4898	NZ	LYS	B	247	44.179	23.369	-52.978	1.00	45.92	N

ATOM	4899	C	LYS	B	247	46.925	29.616	-53.370	1.00	20.54	C
ATOM	4900	O	LYS	B	247	48.076	29.260	-53.081	1.00	20.22	O
ATOM	4901	N	PRO	B	248	46.616	30.152	-54.558	1.00	23.86	N
ATOM	4902	CA	PRO	B	248	47.639	30.354	-55.598	1.00	22.86	C
ATOM	4903	CB	PRO	B	248	46.857	31.009	-56.744	1.00	24.35	C
ATOM	4904	CG	PRO	B	248	45.467	30.620	-56.514	1.00	28.80	C
ATOM	4905	CD	PRO	B	248	45.288	30.587	-55.024	1.00	21.86	C
ATOM	4906	C	PRO	B	248	48.769	31.269	-55.147	1.00	22.88	C
ATOM	4907	O	PRO	B	248	49.929	30.972	-55.443	1.00	21.91	O
ATOM	4908	N	ILE	B	249	48.449	32.353	-54.440	1.00	18.88	N
ATOM	4909	CA	ILE	B	249	49.489	33.270	-53.978	1.00	18.11	C
ATOM	4910	CB	ILE	B	249	48.895	34.595	-53.415	1.00	19.58	C
ATOM	4911	CG1	ILE	B	249	48.300	35.472	-54.539	1.00	20.29	C
ATOM	4912	CD1	ILE	B	249	49.306	36.067	-55.517	1.00	25.47	C
ATOM	4913	CG2	ILE	B	249	49.948	35.374	-52.612	1.00	20.69	C
ATOM	4914	C	ILE	B	249	50.404	32.591	-52.955	1.00	17.96	C
ATOM	4915	O	ILE	B	249	51.629	32.662	-53.071	1.00	18.75	O
ATOM	4916	N	ILE	B	250	49.812	31.924	-51.968	1.00	19.03	N
ATOM	4917	CA	ILE	B	250	50.613	31.275	-50.934	1.00	20.59	C
ATOM	4918	CB	ILE	B	250	49.741	30.885	-49.703	1.00	20.98	C
ATOM	4919	CG1	ILE	B	250	49.145	32.144	-49.049	1.00	19.25	C
ATOM	4920	CD1	ILE	B	250	50.159	33.232	-48.628	1.00	19.38	C
ATOM	4921	CG2	ILE	B	250	50.550	30.082	-48.681	1.00	19.80	C
ATOM	4922	C	ILE	B	250	51.434	30.097	-51.493	1.00	20.96	C
ATOM	4923	O	ILE	B	250	52.598	29.934	-51.137	1.00	17.63	O
ATOM	4924	N	SER	B	251	50.843	29.308	-52.385	1.00	22.52	N
ATOM	4925	CA	SER	B	251	51.585	28.252	-53.081	1.00	23.26	C
ATOM	4926	CB	SER	B	251	50.682	27.510	-54.074	1.00	24.96	C
ATOM	4927	OG	SER	B	251	49.503	27.050	-53.439	1.00	31.21	O
ATOM	4928	C	SER	B	251	52.829	28.784	-53.803	1.00	21.46	C
ATOM	4929	O	SER	B	251	53.907	28.189	-53.721	1.00	20.01	O
ATOM	4930	N	LYS	B	252	52.681	29.911	-54.492	1.00	21.30	N
ATOM	4931	CA	LYS	B	252	53.789	30.506	-55.238	1.00	23.80	C
ATOM	4932	CB	LYS	B	252	53.266	31.567	-56.217	1.00	24.73	C
ATOM	4933	CG	LYS	B	252	54.335	32.183	-57.121	1.00	31.92	C
ATOM	4934	CD	LYS	B	252	54.482	31.431	-58.440	1.00	36.52	C
ATOM	4935	CE	LYS	B	252	55.696	31.925	-59.222	1.00	41.18	C
ATOM	4936	NZ	LYS	B	252	56.080	30.966	-60.299	1.00	44.70	N
ATOM	4937	C	LYS	B	252	54.841	31.096	-54.298	1.00	25.06	C
ATOM	4938	O	LYS	B	252	56.047	30.982	-54.543	1.00	23.09	O
ATOM	4939	N	VAL	B	253	54.381	31.729	-53.220	1.00	20.49	N
ATOM	4940	CA	VAL	B	253	55.292	32.218	-52.196	1.00	19.46	C
ATOM	4941	CB	VAL	B	253	54.539	32.997	-51.081	1.00	22.23	C
ATOM	4942	CG1	VAL	B	253	55.415	33.174	-49.855	1.00	20.97	C
ATOM	4943	CG2	VAL	B	253	54.075	34.351	-51.597	1.00	20.79	C
ATOM	4944	C	VAL	B	253	56.087	31.045	-51.613	1.00	21.42	C
ATOM	4945	O	VAL	B	253	57.303	31.131	-51.475	1.00	19.78	O
ATOM	4946	N	MET	B	254	55.403	29.942	-51.306	1.00	19.13	N
ATOM	4947	CA	MET	B	254	56.072	28.775	-50.720	1.00	23.41	C
ATOM	4948	CB	MET	B	254	55.054	27.690	-50.364	1.00	22.95	C
ATOM	4949	CG	MET	B	254	54.168	28.044	-49.197	1.00	24.47	C
ATOM	4950	SD	MET	B	254	55.077	28.095	-47.665	1.00	25.93	S
ATOM	4951	CE	MET	B	254	53.704	28.254	-46.509	1.00	26.92	C
ATOM	4952	C	MET	B	254	57.135	28.211	-51.667	1.00	26.44	C
ATOM	4953	O	MET	B	254	58.249	27.875	-51.242	1.00	28.89	O
ATOM	4954	N	GLU	B	255	56.777	28.128	-52.946	1.00	31.10	N
ATOM	4955	CA	GLU	B	255	57.658	27.622	-53.996	1.00	34.36	C
ATOM	4956	CB	GLU	B	255	56.871	27.499	-55.307	1.00	38.50	C
ATOM	4957	CG	GLU	B	255	57.543	26.671	-56.391	1.00	46.13	C
ATOM	4958	CD	GLU	B	255	56.899	26.865	-57.754	1.00	51.89	C
ATOM	4959	OE1	GLU	B	255	56.328	25.891	-58.289	1.00	54.54	O
ATOM	4960	OE2	GLU	B	255	56.959	27.993	-58.294	1.00	54.00	O
ATOM	4961	C	GLU	B	255	58.896	28.505	-54.189	1.00	31.88	C

ATOM	4962	O	GLU B 255	60.020	28.002	-54.250	1.00	30.93	O
ATOM	4963	N	MET B 256	58.690	29.817	-54.272	1.00	27.23	N
ATOM	4964	CA	MET B 256	59.787	30.747	-54.542	1.00	27.01	C
ATOM	4965	CB	MET B 256	59.263	32.037	-55.174	1.00	27.30	C
ATOM	4966	CG	MET B 256	58.538	31.855	-56.509	1.00	33.35	C
ATOM	4967	SD	MET B 256	59.548	31.029	-57.764	1.00	35.24	S
ATOM	4968	CE	MET B 256	60.863	32.209	-57.986	1.00	36.91	C
ATOM	4969	C	MET B 256	60.632	31.076	-53.310	1.00	26.75	C
ATOM	4970	O	MET B 256	61.857	31.130	-53.393	1.00	26.72	O
ATOM	4971	N	TYR B 257	59.976	31.304	-52.177	1.00	24.05	N
ATOM	4972	CA	TYR B 257	60.664	31.736	-50.962	1.00	23.73	C
ATOM	4973	CB	TYR B 257	59.744	32.632	-50.122	1.00	20.85	C
ATOM	4974	CG	TYR B 257	60.434	33.312	-48.976	1.00	20.86	C
ATOM	4975	CD1	TYR B 257	59.965	33.163	-47.670	1.00	20.45	C
ATOM	4976	CE1	TYR B 257	60.600	33.789	-46.608	1.00	17.38	C
ATOM	4977	CZ	TYR B 257	61.715	34.570	-46.850	1.00	20.33	C
ATOM	4978	OH	TYR B 257	62.345	35.187	-45.809	1.00	20.91	O
ATOM	4979	CE2	TYR B 257	62.202	34.730	-48.135	1.00	18.24	C
ATOM	4980	CD2	TYR B 257	61.560	34.108	-49.188	1.00	18.30	C
ATOM	4981	C	TYR B 257	61.223	30.589	-50.115	1.00	24.20	C
ATOM	4982	O	TYR B 257	62.253	30.742	-49.462	1.00	25.23	O
ATOM	4983	N	GLN B 258	60.535	29.450	-50.131	1.00	23.28	N
ATOM	4984	CA	GLN B 258	60.911	28.273	-49.332	1.00	24.39	C
ATOM	4985	CB	GLN B 258	62.076	27.520	-49.991	1.00	30.51	C
ATOM	4986	CG	GLN B 258	61.907	27.289	-51.481	1.00	35.96	C
ATOM	4987	CD	GLN B 258	62.528	25.991	-51.926	1.00	44.25	C
ATOM	4988	OE1	GLN B 258	63.600	25.986	-52.526	1.00	45.16	O
ATOM	4989	NE2	GLN B 258	61.862	24.881	-51.627	1.00	48.93	N
ATOM	4990	C	GLN B 258	61.257	28.599	-47.873	1.00	24.99	C
ATOM	4991	O	GLN B 258	62.397	28.390	-47.430	1.00	22.63	O
ATOM	4992	N	PRO B 259	60.286	29.091	-47.106	1.00	21.69	N
ATOM	4993	CA	PRO B 259	60.549	29.424	-45.704	1.00	19.82	C
ATOM	4994	CB	PRO B 259	59.302	30.223	-45.302	1.00	19.19	C
ATOM	4995	CG	PRO B 259	58.213	29.654	-46.156	1.00	20.39	C
ATOM	4996	CD	PRO B 259	58.872	29.316	-47.473	1.00	22.01	C
ATOM	4997	C	PRO B 259	60.649	28.138	-44.880	1.00	19.09	C
ATOM	4998	O	PRO B 259	60.161	27.098	-45.325	1.00	20.06	O
ATOM	4999	N	SER B 260	61.263	28.209	-43.704	1.00	20.01	N
ATOM	5000	CA	SER B 260	61.293	27.056	-42.802	1.00	24.22	C
ATOM	5001	CB	SER B 260	62.718	26.746	-42.345	1.00	22.33	C
ATOM	5002	OG	SER B 260	63.339	27.897	-41.815	1.00	24.56	O
ATOM	5003	C	SER B 260	60.359	27.212	-41.598	1.00	22.80	C
ATOM	5004	O	SER B 260	60.169	26.265	-40.830	1.00	19.42	O
ATOM	5005	N	ALA B 261	59.781	28.409	-41.445	1.00	20.76	N
ATOM	5006	CA	ALA B 261	58.769	28.671	-40.423	1.00	18.08	C
ATOM	5007	CB	ALA B 261	59.415	29.193	-39.131	1.00	17.69	C
ATOM	5008	C	ALA B 261	57.742	29.668	-40.949	1.00	19.15	C
ATOM	5009	O	ALA B 261	58.052	30.490	-41.817	1.00	16.74	O
ATOM	5010	N	VAL B 262	56.517	29.576	-40.442	1.00	15.53	N
ATOM	5011	CA	VAL B 262	55.446	30.479	-40.867	1.00	14.71	C
ATOM	5012	CB	VAL B 262	54.384	29.753	-41.743	1.00	17.22	C
ATOM	5013	CG1	VAL B 262	53.292	30.737	-42.203	1.00	14.73	C
ATOM	5014	CG2	VAL B 262	55.027	29.085	-42.952	1.00	17.20	C
ATOM	5015	C	VAL B 262	54.761	31.092	-39.644	1.00	16.40	C
ATOM	5016	O	VAL B 262	54.529	30.405	-38.646	1.00	13.68	O
ATOM	5017	N	VAL B 263	54.457	32.390	-39.724	1.00	15.38	N
ATOM	5018	CA	VAL B 263	53.631	33.060	-38.720	1.00	13.12	C
ATOM	5019	CB	VAL B 263	54.351	34.271	-38.070	1.00	13.11	C
ATOM	5020	CG1	VAL B 263	53.412	35.008	-37.097	1.00	14.14	C
ATOM	5021	CG2	VAL B 263	55.605	33.828	-37.347	1.00	13.44	C
ATOM	5022	C	VAL B 263	52.372	33.542	-39.420	1.00	15.83	C
ATOM	5023	O	VAL B 263	52.452	34.250	-40.429	1.00	14.61	O
ATOM	5024	N	LEU B 264	51.219	33.149	-38.893	1.00	13.07	N

ATOM	5025	CA	LEU	B	264	49.939	33.489	-39.498	1.00	14.54	C
ATOM	5026	CB	LEU	B	264	49.177	32.228	-39.925	1.00	15.81	C
ATOM	5027	CG	LEU	B	264	47.751	32.362	-40.490	1.00	16.81	C
ATOM	5028	CD1	LEU	B	264	47.698	33.199	-41.788	1.00	18.00	C
ATOM	5029	CD2	LEU	B	264	47.164	30.979	-40.736	1.00	17.59	C
ATOM	5030	C	LEU	B	264	49.102	34.329	-38.545	1.00	16.82	C
ATOM	5031	O	LEU	B	264	48.703	33.879	-37.457	1.00	15.57	O
ATOM	5032	N	GLN	B	265	48.864	35.566	-38.952	1.00	14.41	N
ATOM	5033	CA	GLN	B	265	48.020	36.478	-38.191	1.00	12.39	C
ATOM	5034	CB	GLN	B	265	48.511	37.924	-38.393	1.00	13.94	C
ATOM	5035	CG	GLN	B	265	48.060	38.909	-37.326	1.00	14.21	C
ATOM	5036	CD	GLN	B	265	46.717	39.577	-37.654	1.00	16.52	C
ATOM	5037	OE1	GLN	B	265	45.967	39.097	-38.508	1.00	16.60	O
ATOM	5038	NE2	GLN	B	265	46.428	40.694	-36.986	1.00	16.54	N
ATOM	5039	C	GLN	B	265	46.596	36.272	-38.714	1.00	13.37	C
ATOM	5040	O	GLN	B	265	46.336	36.448	-39.916	1.00	14.10	O
ATOM	5041	N	CYS	B	266	45.691	35.869	-37.821	1.00	13.87	N
ATOM	5042	CA	CYS	B	266	44.325	35.488	-38.186	1.00	10.87	C
ATOM	5043	CB	CYS	B	266	43.967	34.125	-37.576	1.00	15.36	C
ATOM	5044	SG	CYS	B	266	45.121	32.804	-37.967	1.00	20.20	S
ATOM	5045	C	CYS	B	266	43.281	36.506	-37.720	1.00	13.88	C
ATOM	5046	O	CYS	B	266	42.234	36.118	-37.192	1.00	16.49	O
ATOM	5047	N	GLY	B	267	43.547	37.794	-37.927	1.00	13.78	N
ATOM	5048	CA	GLY	B	267	42.599	38.834	-37.546	1.00	12.48	C
ATOM	5049	C	GLY	B	267	41.203	38.509	-38.070	1.00	12.44	C
ATOM	5050	O	GLY	B	267	41.034	38.192	-39.255	1.00	16.25	O
ATOM	5051	N	ALA	B	268	40.215	38.579	-37.180	1.00	13.84	N
ATOM	5052	CA	ALA	B	268	38.843	38.159	-37.483	1.00	13.06	C
ATOM	5053	CB	ALA	B	268	38.222	37.461	-36.269	1.00	15.35	C
ATOM	5054	C	ALA	B	268	37.957	39.321	-37.944	1.00	15.70	C
ATOM	5055	O	ALA	B	268	36.762	39.145	-38.166	1.00	14.52	O
ATOM	5056	N	ASP	B	269	38.548	40.501	-38.099	1.00	13.03	N
ATOM	5057	CA	ASP	B	269	37.805	41.654	-38.599	1.00	12.46	C
ATOM	5058	CB	ASP	B	269	38.432	42.980	-38.149	1.00	11.72	C
ATOM	5059	CG	ASP	B	269	39.915	43.067	-38.433	1.00	19.15	C
ATOM	5060	OD1	ASP	B	269	40.470	42.227	-39.195	1.00	18.12	O
ATOM	5061	OD2	ASP	B	269	40.607	43.980	-37.938	1.00	17.56	O
ATOM	5062	C	ASP	B	269	37.589	41.603	-40.119	1.00	15.51	C
ATOM	5063	O	ASP	B	269	36.927	42.474	-40.683	1.00	15.04	O
ATOM	5064	N	SER	B	270	38.129	40.570	-40.768	1.00	13.55	N
ATOM	5065	CA	SER	B	270	37.846	40.310	-42.180	1.00	14.34	C
ATOM	5066	CB	SER	B	270	39.048	39.633	-42.864	1.00	14.54	C
ATOM	5067	OG	SER	B	270	39.617	38.666	-42.007	1.00	19.89	O
ATOM	5068	C	SER	B	270	36.578	39.465	-42.359	1.00	17.11	C
ATOM	5069	O	SER	B	270	36.215	39.130	-43.485	1.00	15.76	O
ATOM	5070	N	LEU	B	271	35.899	39.130	-41.257	1.00	14.13	N
ATOM	5071	CA	LEU	B	271	34.636	38.381	-41.333	1.00	13.69	C
ATOM	5072	CB	LEU	B	271	34.331	37.667	-40.012	1.00	15.57	C
ATOM	5073	CG	LEU	B	271	35.272	36.569	-39.519	1.00	14.97	C
ATOM	5074	CD1	LEU	B	271	34.818	36.103	-38.135	1.00	16.75	C
ATOM	5075	CD2	LEU	B	271	35.305	35.403	-40.501	1.00	15.33	C
ATOM	5076	C	LEU	B	271	33.441	39.270	-41.659	1.00	16.39	C
ATOM	5077	O	LEU	B	271	33.385	40.445	-41.261	1.00	14.87	O
ATOM	5078	N	SER	B	272	32.476	38.685	-42.357	1.00	15.03	N
ATOM	5079	CA	SER	B	272	31.157	39.298	-42.532	1.00	16.35	C
ATOM	5080	CB	SER	B	272	30.191	38.296	-43.168	1.00	21.96	C
ATOM	5081	OG	SER	B	272	28.911	38.893	-43.376	1.00	21.94	O
ATOM	5082	C	SER	B	272	30.579	39.783	-41.203	1.00	20.45	C
ATOM	5083	O	SER	B	272	30.611	39.063	-40.204	1.00	19.35	O
ATOM	5084	N	GLY	B	273	30.067	41.012	-41.196	1.00	18.81	N
ATOM	5085	CA	GLY	B	273	29.360	41.541	-40.043	1.00	20.75	C
ATOM	5086	C	GLY	B	273	30.245	42.137	-38.965	1.00	17.21	C
ATOM	5087	O	GLY	B	273	29.759	42.470	-37.881	1.00	20.15	O

ATOM	5088	N	ASP	B	274	31.541	42.262	-39.242	1.00	16.89	N
ATOM	5089	CA	ASP	B	274	32.434	42.873	-38.273	1.00	16.07	C
ATOM	5090	CB	ASP	B	274	33.895	42.783	-38.696	1.00	16.44	C
ATOM	5091	CG	ASP	B	274	34.829	43.320	-37.625	1.00	18.71	C
ATOM	5092	OD1	ASP	B	274	35.114	42.575	-36.656	1.00	18.03	O
ATOM	5093	OD2	ASP	B	274	35.294	44.478	-37.656	1.00	19.46	O
ATOM	5094	C	ASP	B	274	32.047	44.337	-38.093	1.00	18.58	C
ATOM	5095	O	ASP	B	274	31.693	45.016	-39.062	1.00	20.03	O
ATOM	5096	N	ARG	B	275	32.131	44.801	-36.852	1.00	16.74	N
ATOM	5097	CA	ARG	B	275	31.748	46.165	-36.485	1.00	23.49	C
ATOM	5098	CB	ARG	B	275	31.871	46.357	-34.972	1.00	27.71	C
ATOM	5099	CG	ARG	B	275	30.592	46.101	-34.201	1.00	36.02	C
ATOM	5100	CD	BARG	B	275	30.709	46.316	-32.700	0.35	36.26	C
ATOM	5101	CD	AARG	B	275	30.596	46.663	-32.773	0.65	38.18	C
ATOM	5102	NE	BARG	B	275	30.025	45.268	-31.943	0.35	37.10	N
ATOM	5103	NE	AARG	B	275	31.086	48.042	-32.715	0.65	41.71	N
ATOM	5104	CZ	BARG	B	275	28.767	45.340	-31.520	0.35	39.46	C
ATOM	5105	CZ	AARG	B	275	31.609	48.626	-31.638	0.65	40.69	C
ATOM	5106	NH1	BARG	B	275	28.029	46.414	-31.774	0.35	40.25	N
ATOM	5107	NH1	AARG	B	275	31.724	47.964	-30.491	0.65	39.56	N
ATOM	5108	NH2	BARG	B	275	28.241	44.331	-30.840	0.35	39.76	N
ATOM	5109	NH2	AARG	B	275	32.022	49.884	-31.709	0.65	41.50	N
ATOM	5110	C	ARG	B	275	32.576	47.227	-37.198	1.00	23.99	C
ATOM	5111	O	ARG	B	275	32.075	48.318	-37.472	1.00	24.68	O
ATOM	5112	N	LEU	B	276	33.840	46.914	-37.489	1.00	20.37	N
ATOM	5113	CA	LEU	B	276	34.749	47.885	-38.098	1.00	21.44	C
ATOM	5114	CB	LEU	B	276	35.993	48.096	-37.220	1.00	22.48	C
ATOM	5115	CG	LEU	B	276	35.826	48.602	-35.781	1.00	23.78	C
ATOM	5116	CD1	LEU	B	276	37.182	48.937	-35.181	1.00	25.63	C
ATOM	5117	CD2	LEU	B	276	34.892	49.804	-35.687	1.00	24.49	C
ATOM	5118	C	LEU	B	276	35.187	47.510	-39.512	1.00	25.31	C
ATOM	5119	O	LEU	B	276	35.770	48.332	-40.220	1.00	31.14	O
ATOM	5120	N	GLY	B	277	34.925	46.270	-39.910	1.00	21.88	N
ATOM	5121	CA	GLY	B	277	35.386	45.763	-41.192	1.00	21.01	C
ATOM	5122	C	GLY	B	277	34.283	45.661	-42.227	1.00	25.39	C
ATOM	5123	O	GLY	B	277	33.105	45.553	-41.887	1.00	27.07	O
ATOM	5124	N	CYS	B	278	34.660	45.676	-43.499	1.00	21.26	N
ATOM	5125	CA	CYS	B	278	33.667	45.610	-44.565	1.00	25.10	C
ATOM	5126	CB	CYS	B	278	33.563	46.958	-45.275	1.00	33.96	C
ATOM	5127	SG	CYS	B	278	35.175	47.695	-45.575	1.00	50.17	S
ATOM	5128	C	CYS	B	278	33.924	44.487	-45.569	1.00	20.64	C
ATOM	5129	O	CYS	B	278	33.639	44.638	-46.756	1.00	17.67	O
ATOM	5130	N	PHE	B	279	34.473	43.370	-45.095	1.00	15.16	N
ATOM	5131	CA	PHE	B	279	34.588	42.169	-45.919	1.00	12.73	C
ATOM	5132	CB	PHE	B	279	35.870	41.381	-45.590	1.00	17.27	C
ATOM	5133	CG	PHE	B	279	37.132	41.898	-46.252	1.00	17.32	C
ATOM	5134	CD1	PHE	B	279	38.340	41.215	-46.058	1.00	15.52	C
ATOM	5135	CE1	PHE	B	279	39.517	41.650	-46.654	1.00	18.39	C
ATOM	5136	CZ	PHE	B	279	39.515	42.783	-47.456	1.00	17.28	C
ATOM	5137	CE2	PHE	B	279	38.323	43.471	-47.670	1.00	16.47	C
ATOM	5138	CD2	PHE	B	279	37.136	43.028	-47.072	1.00	17.01	C
ATOM	5139	C	PHE	B	279	33.373	41.278	-45.664	1.00	16.55	C
ATOM	5140	O	PHE	B	279	32.571	41.549	-44.762	1.00	19.59	O
ATOM	5141	N	ASN	B	280	33.235	40.217	-46.455	1.00	17.36	N
ATOM	5142	CA	ASN	B	280	32.078	39.326	-46.360	1.00	17.04	C
ATOM	5143	CB	ASN	B	280	31.151	39.570	-47.554	1.00	18.86	C
ATOM	5144	CG	ASN	B	280	29.720	39.127	-47.305	1.00	20.43	C
ATOM	5145	OD1	ASN	B	280	29.294	38.929	-46.161	1.00	22.67	O
ATOM	5146	ND2	ASN	B	280	28.959	38.967	-48.394	1.00	18.25	N
ATOM	5147	C	ASN	B	280	32.479	37.850	-46.285	1.00	16.92	C
ATOM	5148	O	ASN	B	280	31.819	36.981	-46.869	1.00	18.75	O
ATOM	5149	N	LEU	B	281	33.574	37.569	-45.577	1.00	15.32	N
ATOM	5150	CA	LEU	B	281	34.023	36.189	-45.386	1.00	14.56	C

ATOM	5151	CB	LEU	B	281	35.508	36.143	-44.981	1.00	13.87	C
ATOM	5152	CG	LEU	B	281	36.553	36.746	-45.921	1.00	17.99	C
ATOM	5153	CD1	LEU	B	281	37.946	36.492	-45.341	1.00	18.33	C
ATOM	5154	CD2	LEU	B	281	36.439	36.140	-47.316	1.00	19.02	C
ATOM	5155	C	LEU	B	281	33.201	35.489	-44.314	1.00	16.37	C
ATOM	5156	O	LEU	B	281	32.732	36.124	-43.361	1.00	16.39	O
ATOM	5157	N	THR	B	282	33.026	34.179	-44.462	1.00	15.84	N
ATOM	5158	CA	THR	B	282	32.476	33.389	-43.367	1.00	14.54	C
ATOM	5159	CB	THR	B	282	31.587	32.244	-43.878	1.00	19.59	C
ATOM	5160	OG1	THR	B	282	32.392	31.308	-44.600	1.00	20.46	O
ATOM	5161	CG2	THR	B	282	30.562	32.751	-44.893	1.00	19.19	C
ATOM	5162	C	THR	B	282	33.625	32.805	-42.575	1.00	18.29	C
ATOM	5163	O	THR	B	282	34.793	32.948	-42.958	1.00	15.62	O
ATOM	5164	N	VAL	B	283	33.287	32.131	-41.481	1.00	15.48	N
ATOM	5165	CA	VAL	B	283	34.281	31.472	-40.647	1.00	15.83	C
ATOM	5166	CB	VAL	B	283	33.648	30.931	-39.353	1.00	17.74	C
ATOM	5167	CG1	VAL	B	283	34.575	29.921	-38.660	1.00	17.21	C
ATOM	5168	CG2	VAL	B	283	33.324	32.095	-38.407	1.00	18.15	C
ATOM	5169	C	VAL	B	283	34.985	30.372	-41.438	1.00	17.96	C
ATOM	5170	O	VAL	B	283	36.205	30.226	-41.349	1.00	17.31	O
ATOM	5171	N	LYS	B	284	34.217	29.617	-42.222	1.00	17.54	N
ATOM	5172	CA	LYS	B	284	34.780	28.591	-43.101	1.00	23.06	C
ATOM	5173	CB	LYS	B	284	33.671	27.838	-43.838	1.00	25.89	C
ATOM	5174	CG	LYS	B	284	33.193	26.591	-43.133	1.00	32.21	C
ATOM	5175	CD	LYS	B	284	32.000	25.995	-43.868	1.00	35.12	C
ATOM	5176	CE	LYS	B	284	31.386	24.843	-43.086	1.00	39.97	C
ATOM	5177	NZ	LYS	B	284	30.331	24.159	-43.881	1.00	36.74	N
ATOM	5178	C	LYS	B	284	35.773	29.153	-44.114	1.00	24.31	C
ATOM	5179	O	LYS	B	284	36.810	28.541	-44.374	1.00	22.47	O
ATOM	5180	N	GLY	B	285	35.450	30.313	-44.684	1.00	20.75	N
ATOM	5181	CA	GLY	B	285	36.308	30.950	-45.673	1.00	21.63	C
ATOM	5182	C	GLY	B	285	37.598	31.472	-45.073	1.00	20.89	C
ATOM	5183	O	GLY	B	285	38.671	31.365	-45.665	1.00	22.55	O
ATOM	5184	N	HIS	B	286	37.479	32.044	-43.884	1.00	16.20	N
ATOM	5185	CA	HIS	B	286	38.617	32.527	-43.114	1.00	16.17	C
ATOM	5186	CB	HIS	B	286	38.073	33.221	-41.862	1.00	17.20	C
ATOM	5187	CG	HIS	B	286	39.042	34.145	-41.187	1.00	18.96	C
ATOM	5188	ND1	HIS	B	286	39.929	33.717	-40.223	1.00	18.43	N
ATOM	5189	CE1	HIS	B	286	40.622	34.749	-39.774	1.00	18.98	C
ATOM	5190	NE2	HIS	B	286	40.206	35.834	-40.403	1.00	19.30	N
ATOM	5191	CD2	HIS	B	286	39.214	35.485	-41.288	1.00	16.96	C
ATOM	5192	C	HIS	B	286	39.506	31.340	-42.731	1.00	19.25	C
ATOM	5193	O	HIS	B	286	40.714	31.374	-42.924	1.00	18.99	O
ATOM	5194	N	ALA	B	287	38.891	30.275	-42.227	1.00	16.41	N
ATOM	5195	CA	ALA	B	287	39.636	29.115	-41.732	1.00	17.38	C
ATOM	5196	CB	ALA	B	287	38.734	28.241	-40.863	1.00	18.15	C
ATOM	5197	C	ALA	B	287	40.295	28.278	-42.832	1.00	18.28	C
ATOM	5198	O	ALA	B	287	41.225	27.507	-42.561	1.00	17.48	O
ATOM	5199	N	LYS	B	288	39.806	28.423	-44.061	1.00	18.30	N
ATOM	5200	CA	LYS	B	288	40.408	27.782	-45.231	1.00	22.26	C
ATOM	5201	CB	LYS	B	288	39.584	28.086	-46.492	1.00	25.45	C
ATOM	5202	CG	LYS	B	288	40.127	27.486	-47.790	1.00	34.52	C
ATOM	5203	CD	LYS	B	288	39.340	26.259	-48.216	1.00	40.60	C
ATOM	5204	CE	LYS	B	288	39.386	26.076	-49.729	1.00	47.72	C
ATOM	5205	NZ	LYS	B	288	40.558	25.256	-50.161	1.00	50.51	N
ATOM	5206	C	LYS	B	288	41.864	28.230	-45.400	1.00	20.63	C
ATOM	5207	O	LYS	B	288	42.710	27.441	-45.815	1.00	20.60	O
ATOM	5208	N	CYS	B	289	42.145	29.491	-45.067	1.00	19.34	N
ATOM	5209	CA	CYS	B	289	43.513	30.015	-45.040	1.00	19.68	C
ATOM	5210	CB	CYS	B	289	43.524	31.480	-44.591	1.00	19.84	C
ATOM	5211	SG	CYS	B	289	42.666	32.562	-45.728	1.00	21.65	S
ATOM	5212	C	CYS	B	289	44.421	29.206	-44.124	1.00	19.23	C
ATOM	5213	O	CYS	B	289	45.545	28.873	-44.497	1.00	18.43	O

ATOM	5214	N	VAL B 290	43.937	28.899	-42.920	1.00	18.35	N
ATOM	5215	CA	VAL B 290	44.683	28.056	-41.987	1.00	17.42	C
ATOM	5216	CB	VAL B 290	43.955	27.919	-40.622	1.00	21.04	C
ATOM	5217	CG1	VAL B 290	44.738	27.025	-39.667	1.00	21.48	C
ATOM	5218	CG2	VAL B 290	43.727	29.295	-39.991	1.00	20.81	C
ATOM	5219	C	VAL B 290	44.934	26.678	-42.608	1.00	20.82	C
ATOM	5220	O	VAL B 290	46.063	26.173	-42.586	1.00	21.34	O
ATOM	5221	N	GLU B 291	43.881	26.086	-43.165	1.00	16.33	N
ATOM	5222	CA	GLU B 291	43.976	24.777	-43.824	1.00	22.93	C
ATOM	5223	CB	GLU B 291	42.636	24.391	-44.463	1.00	27.17	C
ATOM	5224	CG	GLU B 291	41.558	23.939	-43.487	1.00	37.64	C
ATOM	5225	CD	GLU B 291	40.191	23.780	-44.139	1.00	45.14	C
ATOM	5226	OE1	GLU B 291	40.088	23.076	-45.172	1.00	47.23	O
ATOM	5227	OE2	GLU B 291	39.212	24.359	-43.614	1.00	47.93	O
ATOM	5228	C	GLU B 291	45.074	24.760	-44.893	1.00	23.41	C
ATOM	5229	O	GLU B 291	45.903	23.851	-44.923	1.00	23.31	O
ATOM	5230	N	VAL B 292	45.071	25.773	-45.760	1.00	19.61	N
ATOM	5231	CA	VAL B 292	46.069	25.905	-46.828	1.00	18.01	C
ATOM	5232	CB	VAL B 292	45.758	27.125	-47.746	1.00	20.11	C
ATOM	5233	CG1	VAL B 292	46.907	27.413	-48.724	1.00	19.73	C
ATOM	5234	CG2	VAL B 292	44.466	26.895	-48.519	1.00	22.81	C
ATOM	5235	C	VAL B 292	47.488	26.000	-46.258	1.00	21.55	C
ATOM	5236	O	VAL B 292	48.389	25.295	-46.709	1.00	19.81	O
ATOM	5237	N	VAL B 293	47.679	26.861	-45.257	1.00	18.96	N
ATOM	5238	CA	VAL B 293	49.000	27.059	-44.669	1.00	20.54	C
ATOM	5239	CB	VAL B 293	49.021	28.260	-43.683	1.00	21.91	C
ATOM	5240	CG1	VAL B 293	50.348	28.345	-42.951	1.00	20.08	C
ATOM	5241	CG2	VAL B 293	48.761	29.567	-44.432	1.00	21.78	C
ATOM	5242	C	VAL B 293	49.496	25.766	-44.017	1.00	23.93	C
ATOM	5243	O	VAL B 293	50.684	25.433	-44.100	1.00	23.42	O
ATOM	5244	N	LYS B 294	48.573	25.028	-43.406	1.00	20.91	N
ATOM	5245	CA	LYS B 294	48.895	23.744	-42.781	1.00	26.88	C
ATOM	5246	CB	LYS B 294	47.664	23.172	-42.084	1.00	27.99	C
ATOM	5247	CG	LYS B 294	47.563	23.540	-40.626	1.00	35.16	C
ATOM	5248	CD	LYS B 294	46.390	22.822	-39.978	1.00	38.41	C
ATOM	5249	CE	LYS B 294	46.827	21.487	-39.388	1.00	39.91	C
ATOM	5250	NZ	LYS B 294	45.901	20.403	-39.782	1.00	44.39	N
ATOM	5251	C	LYS B 294	49.456	22.699	-43.749	1.00	28.71	C
ATOM	5252	O	LYS B 294	50.314	21.903	-43.356	1.00	30.73	O
ATOM	5253	N	THR B 295	48.982	22.701	-45.000	1.00	26.76	N
ATOM	5254	CA	THR B 295	49.372	21.674	-45.977	1.00	29.75	C
ATOM	5255	CB	THR B 295	48.542	21.749	-47.288	1.00	33.10	C
ATOM	5256	OG1	THR B 295	48.865	22.946	-48.012	1.00	33.40	O
ATOM	5257	CG2	THR B 295	47.046	21.867	-47.003	1.00	33.09	C
ATOM	5258	C	THR B 295	50.862	21.682	-46.317	1.00	29.47	C
ATOM	5259	O	THR B 295	51.379	20.709	-46.850	1.00	30.01	O
ATOM	5260	N	PHE B 296	51.549	22.777	-46.006	1.00	24.77	N
ATOM	5261	CA	PHE B 296	52.974	22.889	-46.309	1.00	25.64	C
ATOM	5262	CB	PHE B 296	53.337	24.341	-46.628	1.00	25.71	C
ATOM	5263	CG	PHE B 296	52.694	24.834	-47.887	1.00	25.19	C
ATOM	5264	CD1	PHE B 296	53.282	24.588	-49.124	1.00	24.30	C
ATOM	5265	CE1	PHE B 296	52.668	25.015	-50.304	1.00	26.29	C
ATOM	5266	CZ	PHE B 296	51.450	25.689	-50.244	1.00	27.41	C
ATOM	5267	CE2	PHE B 296	50.848	25.922	-49.012	1.00	26.23	C
ATOM	5268	CD2	PHE B 296	51.468	25.489	-47.843	1.00	22.05	C
ATOM	5269	C	PHE B 296	53.880	22.281	-45.239	1.00	25.64	C
ATOM	5270	O	PHE B 296	55.103	22.236	-45.408	1.00	26.04	O
ATOM	5271	N	ASN B 297	53.266	21.808	-44.153	1.00	24.73	N
ATOM	5272	CA	ASN B 297	53.957	21.068	-43.095	1.00	27.58	C
ATOM	5273	CB	ASN B 297	54.387	19.677	-43.596	1.00	33.99	C
ATOM	5274	CG	ASN B 297	53.227	18.859	-44.121	1.00	38.33	C
ATOM	5275	OD1	ASN B 297	52.220	18.673	-43.434	1.00	42.35	O
ATOM	5276	ND2	ASN B 297	53.361	18.363	-45.348	1.00	40.05	N

ATOM	5277	C	ASN B 297	55.152	21.795	-42.496	1.00	27.86	C
ATOM	5278	O	ASN B 297	56.187	21.183	-42.237	1.00	28.10	O
ATOM	5279	N	LEU B 298	55.007	23.102	-42.282	1.00	23.99	N
ATOM	5280	CA	LEU B 298	56.061	23.907	-41.679	1.00	19.34	C
ATOM	5281	CB	LEU B 298	56.340	25.169	-42.521	1.00	22.23	C
ATOM	5282	CG	LEU B 298	56.885	24.986	-43.943	1.00	24.63	C
ATOM	5283	CD1	LEU B 298	56.854	26.311	-44.706	1.00	25.34	C
ATOM	5284	CD2	LEU B 298	58.299	24.396	-43.937	1.00	26.66	C
ATOM	5285	C	LEU B 298	55.651	24.311	-40.271	1.00	20.88	C
ATOM	5286	O	LEU B 298	54.459	24.485	-40.018	1.00	21.68	O
ATOM	5287	N	PRO B 299	56.621	24.455	-39.363	1.00	21.66	N
ATOM	5288	CA	PRO B 299	56.358	24.984	-38.019	1.00	21.78	C
ATOM	5289	CB	PRO B 299	57.754	25.279	-37.480	1.00	22.67	C
ATOM	5290	CG	PRO B 299	58.641	24.300	-38.186	1.00	26.16	C
ATOM	5291	CD	PRO B 299	58.051	24.143	-39.559	1.00	24.59	C
ATOM	5292	C	PRO B 299	55.557	26.277	-38.159	1.00	19.50	C
ATOM	5293	O	PRO B 299	55.925	27.143	-38.959	1.00	18.57	O
ATOM	5294	N	LEU B 300	54.467	26.372	-37.412	1.00	18.57	N
ATOM	5295	CA	LEU B 300	53.453	27.396	-37.648	1.00	14.91	C
ATOM	5296	CB	LEU B 300	52.239	26.772	-38.342	1.00	15.20	C
ATOM	5297	CG	LEU B 300	50.956	27.600	-38.535	1.00	17.81	C
ATOM	5298	CD1	LEU B 300	51.251	28.912	-39.291	1.00	17.60	C
ATOM	5299	CD2	LEU B 300	49.904	26.795	-39.282	1.00	19.72	C
ATOM	5300	C	LEU B 300	53.037	28.050	-36.339	1.00	17.91	C
ATOM	5301	O	LEU B 300	52.635	27.371	-35.400	1.00	14.72	O
ATOM	5302	N	LEU B 301	53.150	29.375	-36.287	1.00	15.86	N
ATOM	5303	CA	LEU B 301	52.646	30.158	-35.165	1.00	13.75	C
ATOM	5304	CB	LEU B 301	53.699	31.168	-34.709	1.00	14.99	C
ATOM	5305	CG	LEU B 301	53.298	32.134	-33.592	1.00	17.96	C
ATOM	5306	CD1	LEU B 301	52.976	31.392	-32.275	1.00	16.41	C
ATOM	5307	CD2	LEU B 301	54.404	33.141	-33.367	1.00	18.17	C
ATOM	5308	C	LEU B 301	51.386	30.884	-35.630	1.00	12.95	C
ATOM	5309	O	LEU B 301	51.437	31.649	-36.592	1.00	14.83	O
ATOM	5310	N	MET B 302	50.266	30.618	-34.961	1.00	13.69	N
ATOM	5311	CA	MET B 302	48.981	31.221	-35.308	1.00	13.43	C
ATOM	5312	CB	MET B 302	47.892	30.154	-35.406	1.00	15.16	C
ATOM	5313	CG	MET B 302	48.054	29.213	-36.587	1.00	23.53	C
ATOM	5314	SD	MET B 302	47.013	27.745	-36.396	1.00	28.97	S
ATOM	5315	CE	MET B 302	45.326	28.571	-36.434	1.00	21.22	C
ATOM	5316	C	MET B 302	48.607	32.236	-34.241	1.00	14.13	C
ATOM	5317	O	MET B 302	48.584	31.916	-33.054	1.00	13.51	O
ATOM	5318	N	LEU B 303	48.326	33.463	-34.671	1.00	10.22	N
ATOM	5319	CA	LEU B 303	48.049	34.554	-33.752	1.00	9.88	C
ATOM	5320	CB	LEU B 303	49.161	35.610	-33.833	1.00	13.07	C
ATOM	5321	CG	LEU B 303	50.595	35.089	-33.615	1.00	16.07	C
ATOM	5322	CD1	LEU B 303	51.605	36.192	-33.927	1.00	17.23	C
ATOM	5323	CD2	LEU B 303	50.768	34.569	-32.187	1.00	12.77	C
ATOM	5324	C	LEU B 303	46.697	35.191	-34.051	1.00	15.03	C
ATOM	5325	O	LEU B 303	46.135	34.990	-35.131	1.00	12.76	O
ATOM	5326	N	GLY B 304	46.179	35.941	-33.082	1.00	15.17	N
ATOM	5327	CA	GLY B 304	44.922	36.650	-33.244	1.00	15.19	C
ATOM	5328	C	GLY B 304	45.116	37.948	-34.018	1.00	16.85	C
ATOM	5329	O	GLY B 304	45.871	37.995	-34.983	1.00	17.24	O
ATOM	5330	N	GLY B 305	44.430	39.000	-33.593	1.00	16.64	N
ATOM	5331	CA	GLY B 305	44.508	40.287	-34.269	1.00	17.56	C
ATOM	5332	C	GLY B 305	43.210	41.032	-34.051	1.00	16.49	C
ATOM	5333	O	GLY B 305	42.606	40.917	-32.981	1.00	19.29	O
ATOM	5334	N	GLY B 306	42.775	41.785	-35.054	1.00	15.10	N
ATOM	5335	CA	GLY B 306	41.525	42.518	-34.963	1.00	16.89	C
ATOM	5336	C	GLY B 306	40.313	41.600	-34.911	1.00	19.47	C
ATOM	5337	O	GLY B 306	40.414	40.388	-35.119	1.00	21.06	O
ATOM	5338	N	GLY B 307	39.162	42.182	-34.610	1.00	14.53	N
ATOM	5339	CA	GLY B 307	37.916	41.436	-34.575	1.00	14.94	C

ATOM	5340	C	GLY	B	307	37.031	42.090	-33.541	1.00	16.74	C
ATOM	5341	O	GLY	B	307	37.373	42.107	-32.353	1.00	18.48	O
ATOM	5342	N	TYR	B	308	35.887	42.596	-33.992	1.00	14.84	N
ATOM	5343	CA	TYR	B	308	35.107	43.558	-33.211	1.00	16.38	C
ATOM	5344	CB	TYR	B	308	35.307	44.976	-33.799	1.00	13.53	C
ATOM	5345	CG	TYR	B	308	36.777	45.269	-33.922	1.00	16.01	C
ATOM	5346	CD1	TYR	B	308	37.442	45.166	-35.152	1.00	14.32	C
ATOM	5347	CE1	TYR	B	308	38.818	45.389	-35.235	1.00	15.56	C
ATOM	5348	CZ	TYR	B	308	39.523	45.690	-34.070	1.00	17.41	C
ATOM	5349	OH	TYR	B	308	40.880	45.909	-34.090	1.00	19.81	O
ATOM	5350	CE2	TYR	B	308	38.880	45.755	-32.852	1.00	17.64	C
ATOM	5351	CD2	TYR	B	308	37.530	45.541	-32.785	1.00	17.59	C
ATOM	5352	C	TYR	B	308	33.637	43.203	-33.033	1.00	17.03	C
ATOM	5353	O	TYR	B	308	32.934	43.865	-32.286	1.00	18.01	O
ATOM	5354	N	THR	B	309	33.182	42.155	-33.714	1.00	15.13	N
ATOM	5355	CA	THR	B	309	31.877	41.563	-33.424	1.00	15.19	C
ATOM	5356	CB	THR	B	309	31.099	41.268	-34.716	1.00	17.27	C
ATOM	5357	OG1	THR	B	309	30.810	42.510	-35.364	1.00	19.64	O
ATOM	5358	CG2	THR	B	309	29.717	40.706	-34.402	1.00	18.22	C
ATOM	5359	C	THR	B	309	32.236	40.305	-32.673	1.00	16.42	C
ATOM	5360	O	THR	B	309	32.563	39.272	-33.272	1.00	15.21	O
ATOM	5361	N	ILE	B	310	32.230	40.409	-31.351	1.00	15.13	N
ATOM	5362	CA	ILE	B	310	32.973	39.439	-30.547	1.00	18.62	C
ATOM	5363	CB	ILE	B	310	33.234	39.963	-29.117	1.00	21.87	C
ATOM	5364	CG1	ILE	B	310	31.925	40.194	-28.351	1.00	21.95	C
ATOM	5365	CD1	ILE	B	310	32.132	40.706	-26.914	1.00	29.75	C
ATOM	5366	CG2	ILE	B	310	34.064	41.256	-29.196	1.00	23.29	C
ATOM	5367	C	ILE	B	310	32.413	38.019	-30.586	1.00	17.38	C
ATOM	5368	O	ILE	B	310	33.174	37.056	-30.478	1.00	15.32	O
ATOM	5369	N	ARG	B	311	31.102	37.880	-30.774	1.00	14.79	N
ATOM	5370	CA	ARG	B	311	30.529	36.545	-30.989	1.00	17.18	C
ATOM	5371	CB	ARG	B	311	28.998	36.600	-31.122	1.00	20.16	C
ATOM	5372	CG	ARG	B	311	28.465	37.361	-32.336	1.00	22.10	C
ATOM	5373	CD	ARG	B	311	26.941	37.321	-32.464	1.00	23.35	C
ATOM	5374	NE	ARG	B	311	26.462	38.008	-33.664	1.00	25.63	N
ATOM	5375	CZ	ARG	B	311	26.336	39.326	-33.778	1.00	27.53	C
ATOM	5376	NH1	ARG	B	311	25.889	39.854	-34.910	1.00	31.46	N
ATOM	5377	NH2	ARG	B	311	26.654	40.121	-32.767	1.00	27.66	N
ATOM	5378	C	ARG	B	311	31.169	35.839	-32.197	1.00	16.34	C
ATOM	5379	O	ARG	B	311	31.421	34.631	-32.159	1.00	14.64	O
ATOM	5380	N	ASN	B	312	31.456	36.595	-33.254	1.00	12.89	N
ATOM	5381	CA	ASN	B	312	32.041	36.005	-34.456	1.00	14.66	C
ATOM	5382	CB	ASN	B	312	31.731	36.845	-35.684	1.00	14.46	C
ATOM	5383	CG	ASN	B	312	30.257	36.821	-36.027	1.00	19.03	C
ATOM	5384	OD1	ASN	B	312	29.515	35.952	-35.554	1.00	17.58	O
ATOM	5385	ND2	ASN	B	312	29.825	37.767	-36.842	1.00	18.75	N
ATOM	5386	C	ASN	B	312	33.526	35.767	-34.342	1.00	13.49	C
ATOM	5387	O	ASN	B	312	34.061	34.853	-34.975	1.00	14.74	O
ATOM	5388	N	VAL	B	313	34.190	36.605	-33.549	1.00	15.22	N
ATOM	5389	CA	VAL	B	313	35.585	36.375	-33.197	1.00	13.86	C
ATOM	5390	CB	VAL	B	313	36.139	37.505	-32.315	1.00	15.27	C
ATOM	5391	CG1	VAL	B	313	37.563	37.192	-31.833	1.00	15.29	C
ATOM	5392	CG2	VAL	B	313	36.114	38.817	-33.069	1.00	14.49	C
ATOM	5393	C	VAL	B	313	35.719	35.037	-32.473	1.00	15.40	C
ATOM	5394	O	VAL	B	313	36.562	34.224	-32.841	1.00	14.74	O
ATOM	5395	N	ALA	B	314	34.877	34.808	-31.462	1.00	12.90	N
ATOM	5396	CA	ALA	B	314	34.921	33.553	-30.710	1.00	13.25	C
ATOM	5397	CB	ALA	B	314	33.922	33.568	-29.548	1.00	14.21	C
ATOM	5398	C	ALA	B	314	34.685	32.344	-31.613	1.00	13.43	C
ATOM	5399	O	ALA	B	314	35.399	31.342	-31.508	1.00	13.21	O
ATOM	5400	N	ARG	B	315	33.691	32.434	-32.496	1.00	11.27	N
ATOM	5401	CA	ARG	B	315	33.439	31.376	-33.489	1.00	13.03	C
ATOM	5402	CB	ARG	B	315	32.275	31.761	-34.390	1.00	13.50	C

ATOM	5403	CG	ARG	B	315	30.916	31.783	-33.730	1.00	13.80	C
ATOM	5404	CD	ARG	B	315	29.865	32.533	-34.548	1.00	15.64	C
ATOM	5405	NE	ARG	B	315	28.520	32.074	-34.204	1.00	16.30	N
ATOM	5406	CZ	ARG	B	315	27.490	32.868	-33.935	1.00	16.69	C
ATOM	5407	NH1	ARG	B	315	26.319	32.340	-33.607	1.00	13.40	N
ATOM	5408	NH2	ARG	B	315	27.616	34.188	-34.003	1.00	19.30	N
ATOM	5409	C	ARG	B	315	34.658	31.116	-34.382	1.00	14.08	C
ATOM	5410	O	ARG	B	315	35.080	29.972	-34.579	1.00	14.61	O
ATOM	5411	N	CYS	B	316	35.203	32.189	-34.941	1.00	12.98	N
ATOM	5412	CA	CYS	B	316	36.325	32.091	-35.869	1.00	14.11	C
ATOM	5413	CB	CYS	B	316	36.750	33.491	-36.318	1.00	11.80	C
ATOM	5414	SG	CYS	B	316	37.766	33.451	-37.802	1.00	18.15	S
ATOM	5415	C	CYS	B	316	37.530	31.378	-35.256	1.00	15.03	C
ATOM	5416	O	CYS	B	316	38.051	30.409	-35.818	1.00	14.81	O
ATOM	5417	N	TRP	B	317	37.973	31.865	-34.104	1.00	14.34	N
ATOM	5418	CA	TRP	B	317	39.190	31.339	-33.502	1.00	12.85	C
ATOM	5419	CB	TRP	B	317	39.794	32.337	-32.516	1.00	12.05	C
ATOM	5420	CG	TRP	B	317	40.311	33.573	-33.212	1.00	13.03	C
ATOM	5421	CD1	TRP	B	317	40.591	33.715	-34.548	1.00	16.02	C
ATOM	5422	NE1	TRP	B	317	41.044	34.988	-34.808	1.00	13.77	N
ATOM	5423	CE2	TRP	B	317	41.062	35.696	-33.638	1.00	12.63	C
ATOM	5424	CD2	TRP	B	317	40.600	34.837	-32.612	1.00	10.95	C
ATOM	5425	CE3	TRP	B	317	40.537	35.329	-31.303	1.00	12.22	C
ATOM	5426	CZ3	TRP	B	317	40.923	36.649	-31.064	1.00	13.53	C
ATOM	5427	CH2	TRP	B	317	41.365	37.477	-32.114	1.00	13.00	C
ATOM	5428	CZ2	TRP	B	317	41.441	37.020	-33.398	1.00	14.60	C
ATOM	5429	C	TRP	B	317	38.970	29.956	-32.894	1.00	11.81	C
ATOM	5430	O	TRP	B	317	39.885	29.140	-32.879	1.00	13.28	O
ATOM	5431	N	THR	B	318	37.750	29.681	-32.453	1.00	11.44	N
ATOM	5432	CA	THR	B	318	37.396	28.327	-32.024	1.00	14.16	C
ATOM	5433	CB	THR	B	318	35.964	28.290	-31.446	1.00	13.09	C
ATOM	5434	OG1	THR	B	318	35.959	28.938	-30.166	1.00	15.50	O
ATOM	5435	CG2	THR	B	318	35.538	26.842	-31.140	1.00	15.13	C
ATOM	5436	C	THR	B	318	37.537	27.364	-33.199	1.00	15.73	C
ATOM	5437	O	THR	B	318	38.183	26.311	-33.081	1.00	13.31	O
ATOM	5438	N	TYR	B	319	36.935	27.720	-34.331	1.00	12.99	N
ATOM	5439	CA	TYR	B	319	36.991	26.848	-35.509	1.00	13.73	C
ATOM	5440	CB	TYR	B	319	36.035	27.310	-36.609	1.00	13.16	C
ATOM	5441	CG	TYR	B	319	35.916	26.330	-37.759	1.00	14.46	C
ATOM	5442	CD1	TYR	B	319	35.416	25.042	-37.557	1.00	15.30	C
ATOM	5443	CE1	TYR	B	319	35.304	24.142	-38.612	1.00	21.07	C
ATOM	5444	CZ	TYR	B	319	35.699	24.529	-39.879	1.00	22.51	C
ATOM	5445	OH	TYR	B	319	35.587	23.648	-40.926	1.00	25.96	O
ATOM	5446	CE2	TYR	B	319	36.197	25.807	-40.106	1.00	19.53	C
ATOM	5447	CD2	TYR	B	319	36.305	26.693	-39.048	1.00	14.74	C
ATOM	5448	C	TYR	B	319	38.410	26.689	-36.048	1.00	13.80	C
ATOM	5449	O	TYR	B	319	38.804	25.590	-36.445	1.00	15.20	O
ATOM	5450	N	GLU	B	320	39.182	27.777	-36.032	1.00	14.43	N
ATOM	5451	CA	GLU	B	320	40.575	27.728	-36.485	1.00	12.69	C
ATOM	5452	CB	GLU	B	320	41.100	29.143	-36.726	1.00	14.91	C
ATOM	5453	CG	GLU	B	320	40.444	29.635	-38.006	1.00	14.81	C
ATOM	5454	CD	GLU	B	320	40.651	31.082	-38.338	1.00	16.79	C
ATOM	5455	OE1	GLU	B	320	41.030	31.890	-37.462	1.00	18.96	O
ATOM	5456	OE2	GLU	B	320	40.402	31.399	-39.517	1.00	20.54	O
ATOM	5457	C	GLU	B	320	41.490	26.877	-35.595	1.00	11.81	C
ATOM	5458	O	GLU	B	320	42.434	26.234	-36.086	1.00	15.53	O
ATOM	5459	N	THR	B	321	41.193	26.857	-34.302	1.00	13.03	N
ATOM	5460	CA	THR	B	321	41.871	25.951	-33.374	1.00	14.46	C
ATOM	5461	CB	THR	B	321	41.440	26.238	-31.934	1.00	13.74	C
ATOM	5462	OG1	THR	B	321	41.701	27.617	-31.612	1.00	15.54	O
ATOM	5463	CG2	THR	B	321	42.304	25.444	-30.941	1.00	15.64	C
ATOM	5464	C	THR	B	321	41.542	24.502	-33.743	1.00	12.50	C
ATOM	5465	O	THR	B	321	42.430	23.649	-33.770	1.00	17.23	O

ATOM	5466	N	ALA	B	322	40.269	24.234	-34.027	1.00	13.65	N
ATOM	5467	CA	ALA	B	322	39.842	22.893	-34.450	1.00	17.14	C
ATOM	5468	CB	ALA	B	322	38.318	22.844	-34.624	1.00	16.92	C
ATOM	5469	C	ALA	B	322	40.550	22.470	-35.744	1.00	18.75	C
ATOM	5470	O	ALA	B	322	40.977	21.313	-35.893	1.00	18.79	O
ATOM	5471	N	VAL	B	323	40.672	23.411	-36.677	1.00	15.68	N
ATOM	5472	CA	VAL	B	323	41.371	23.163	-37.936	1.00	17.47	C
ATOM	5473	CB	VAL	B	323	41.287	24.388	-38.887	1.00	18.66	C
ATOM	5474	CG1	VAL	B	323	42.281	24.254	-40.025	1.00	19.68	C
ATOM	5475	CG2	VAL	B	323	39.871	24.548	-39.434	1.00	19.97	C
ATOM	5476	C	VAL	B	323	42.834	22.792	-37.689	1.00	19.53	C
ATOM	5477	O	VAL	B	323	43.357	21.858	-38.311	1.00	18.91	O
ATOM	5478	N	ALA	B	324	43.487	23.524	-36.786	1.00	17.75	N
ATOM	5479	CA	ALA	B	324	44.869	23.241	-36.418	1.00	20.56	C
ATOM	5480	CB	ALA	B	324	45.405	24.310	-35.477	1.00	20.83	C
ATOM	5481	C	ALA	B	324	45.001	21.853	-35.785	1.00	23.44	C
ATOM	5482	O	ALA	B	324	46.030	21.198	-35.936	1.00	23.15	O
ATOM	5483	N	LEU	B	325	43.950	21.414	-35.098	1.00	21.98	N
ATOM	5484	CA	LEU	B	325	43.925	20.093	-34.451	1.00	20.94	C
ATOM	5485	CB	LEU	B	325	43.043	20.137	-33.196	1.00	19.63	C
ATOM	5486	CG	LEU	B	325	43.554	20.960	-32.014	1.00	21.72	C
ATOM	5487	CD1	LEU	B	325	42.420	21.251	-31.063	1.00	19.78	C
ATOM	5488	CD2	LEU	B	325	44.693	20.242	-31.290	1.00	23.00	C
ATOM	5489	C	LEU	B	325	43.439	18.968	-35.375	1.00	24.71	C
ATOM	5490	O	LEU	B	325	43.356	17.807	-34.954	1.00	25.42	O
ATOM	5491	N	ASP	B	326	43.114	19.307	-36.622	1.00	23.10	N
ATOM	5492	CA	ASP	B	326	42.584	18.342	-37.597	1.00	31.05	C
ATOM	5493	CB	ASP	B	326	43.619	17.253	-37.910	1.00	38.06	C
ATOM	5494	CG	ASP	B	326	44.502	17.610	-39.076	1.00	45.51	C
ATOM	5495	OD1	ASP	B	326	45.743	17.581	-38.910	1.00	51.50	O
ATOM	5496	OD2	ASP	B	326	44.049	17.929	-40.196	1.00	49.83	O
ATOM	5497	C	ASP	B	326	41.288	17.701	-37.114	1.00	33.12	C
ATOM	5498	O	ASP	B	326	41.016	16.529	-37.394	1.00	29.17	O
ATOM	5499	N	CYS	B	327	40.496	18.489	-36.392	1.00	28.66	N
ATOM	5500	CA	CYS	B	327	39.289	18.016	-35.735	1.00	34.57	C
ATOM	5501	CB	CYS	B	327	39.421	18.265	-34.226	1.00	33.76	C
ATOM	5502	SG	CYS	B	327	37.919	18.064	-33.252	1.00	50.64	S
ATOM	5503	C	CYS	B	327	38.092	18.769	-36.304	1.00	34.49	C
ATOM	5504	O	CYS	B	327	38.093	19.998	-36.331	1.00	36.80	O
ATOM	5505	N	GLU	B	328	37.084	18.053	-36.793	1.00	31.02	N
ATOM	5506	CA	GLU	B	328	35.846	18.740	-37.131	1.00	31.77	C
ATOM	5507	CB	BGLU	B	328	35.095	18.065	-38.283	0.35	30.05	C
ATOM	5508	CB	AGLU	B	328	35.106	18.058	-38.300	0.65	37.03	C
ATOM	5509	CG	BGLU	B	328	35.145	18.825	-39.610	0.35	26.45	C
ATOM	5510	CG	AGLU	B	328	34.753	16.588	-38.109	0.65	41.03	C
ATOM	5511	CD	BGLU	B	328	34.761	20.305	-39.524	0.35	25.50	C
ATOM	5512	CD	AGLU	B	328	33.894	16.033	-39.240	0.65	45.21	C
ATOM	5513	OE1BGLU	B	328	34.136	20.743	-38.529	0.35	22.48	O	
ATOM	5514	OE1AGLU	B	328	32.673	15.858	-39.037	0.65	45.05	O	
ATOM	5515	OE2BGLU	B	328	35.088	21.043	-40.476	0.35	22.57	O	
ATOM	5516	OE2AGLU	B	328	34.437	15.764	-40.335	0.65	45.42	O	
ATOM	5517	C	GLU	B	328	34.977	18.835	-35.884	1.00	32.51	C
ATOM	5518	O	GLU	B	328	34.929	17.909	-35.069	1.00	35.63	O
ATOM	5519	N	ILE	B	329	34.349	19.989	-35.706	1.00	25.63	N
ATOM	5520	CA	ILE	B	329	33.453	20.195	-34.580	1.00	22.60	C
ATOM	5521	CB	ILE	B	329	33.991	21.297	-33.616	1.00	19.79	C
ATOM	5522	CG1	ILE	B	329	34.337	22.592	-34.373	1.00	20.13	C
ATOM	5523	CD1	ILE	B	329	34.767	23.753	-33.459	1.00	14.69	C
ATOM	5524	CG2	ILE	B	329	35.200	20.761	-32.835	1.00	19.36	C
ATOM	5525	C	ILE	B	329	32.058	20.508	-35.113	1.00	18.70	C
ATOM	5526	O	ILE	B	329	31.930	21.066	-36.197	1.00	18.50	O
ATOM	5527	N	PRO	B	330	31.017	20.111	-34.380	1.00	21.09	N
ATOM	5528	CA	PRO	B	330	29.638	20.340	-34.836	1.00	19.32	C

ATOM	5529	CB	PRO B 330	28.779	19.661	-33.757	1.00	21.67	C
ATOM	5530	CG	PRO B 330	29.660	19.507	-32.577	1.00	27.05	C
ATOM	5531	CD	PRO B 330	31.066	19.384	-33.100	1.00	21.56	C
ATOM	5532	C	PRO B 330	29.269	21.816	-34.974	1.00	17.91	C
ATOM	5533	O	PRO B 330	29.758	22.660	-34.220	1.00	16.58	O
ATOM	5534	N	ASN B 331	28.412	22.114	-35.946	1.00	16.36	N
ATOM	5535	CA	ASN B 331	27.868	23.461	-36.106	1.00	17.06	C
ATOM	5536	CB	ASN B 331	27.071	23.573	-37.414	1.00	16.00	C
ATOM	5537	CG	ASN B 331	26.850	25.009	-37.824	1.00	17.08	C
ATOM	5538	OD1	ASN B 331	27.684	25.880	-37.549	1.00	17.36	O
ATOM	5539	ND2	ASN B 331	25.720	25.277	-38.463	1.00	18.80	N
ATOM	5540	C	ASN B 331	27.012	23.901	-34.914	1.00	19.61	C
ATOM	5541	O	ASN B 331	26.943	25.090	-34.587	1.00	18.03	O
ATOM	5542	N	GLU B 332	26.364	22.936	-34.265	1.00	19.11	N
ATOM	5543	CA	GLU B 332	25.568	23.212	-33.070	1.00	18.47	C
ATOM	5544	CB	GLU B 332	24.721	21.977	-32.727	1.00	23.36	C
ATOM	5545	CG	GLU B 332	23.833	22.133	-31.504	1.00	29.50	C
ATOM	5546	CD	GLU B 332	22.453	22.691	-31.817	1.00	36.55	C
ATOM	5547	OE1	GLU B 332	22.156	22.988	-33.000	1.00	37.06	O
ATOM	5548	OE2	GLU B 332	21.655	22.832	-30.862	1.00	39.05	O
ATOM	5549	C	GLU B 332	26.501	23.585	-31.914	1.00	15.92	C
ATOM	5550	O	GLU B 332	27.319	22.767	-31.487	1.00	17.24	O
ATOM	5551	N	LEU B 333	26.406	24.820	-31.424	1.00	17.14	N
ATOM	5552	CA	LEU B 333	27.265	25.252	-30.323	1.00	15.96	C
ATOM	5553	CB	LEU B 333	27.138	26.760	-30.063	1.00	17.06	C
ATOM	5554	CG	LEU B 333	27.659	27.703	-31.145	1.00	18.06	C
ATOM	5555	CD1	LEU B 333	27.220	29.127	-30.817	1.00	17.77	C
ATOM	5556	CD2	LEU B 333	29.179	27.604	-31.313	1.00	16.99	C
ATOM	5557	C	LEU B 333	26.955	24.488	-29.036	1.00	15.62	C
ATOM	5558	O	LEU B 333	25.787	24.280	-28.690	1.00	15.85	O
ATOM	5559	N	PRO B 334	27.988	24.084	-28.309	1.00	16.29	N
ATOM	5560	CA	PRO B 334	27.774	23.486	-26.991	1.00	15.45	C
ATOM	5561	CB	PRO B 334	29.168	22.993	-26.599	1.00	19.04	C
ATOM	5562	CG	PRO B 334	30.107	23.886	-27.341	1.00	19.34	C
ATOM	5563	CD	PRO B 334	29.417	24.164	-28.654	1.00	15.84	C
ATOM	5564	C	PRO B 334	27.344	24.586	-26.042	1.00	18.71	C
ATOM	5565	O	PRO B 334	27.682	25.752	-26.264	1.00	14.65	O
ATOM	5566	N	TYR B 335	26.616	24.233	-24.992	1.00	17.53	N
ATOM	5567	CA	TYR B 335	26.339	25.217	-23.959	1.00	16.92	C
ATOM	5568	CB	TYR B 335	25.451	24.640	-22.849	1.00	19.08	C
ATOM	5569	CG	TYR B 335	24.992	25.703	-21.891	1.00	19.10	C
ATOM	5570	CD1	TYR B 335	25.513	25.773	-20.600	1.00	21.31	C
ATOM	5571	CE1	TYR B 335	25.107	26.774	-19.721	1.00	20.68	C
ATOM	5572	CZ	TYR B 335	24.177	27.721	-20.145	1.00	17.67	C
ATOM	5573	OH	TYR B 335	23.774	28.711	-19.289	1.00	24.97	O
ATOM	5574	CE2	TYR B 335	23.651	27.672	-21.412	1.00	19.30	C
ATOM	5575	CD2	TYR B 335	24.062	26.668	-22.286	1.00	18.07	C
ATOM	5576	C	TYR B 335	27.664	25.760	-23.414	1.00	17.13	C
ATOM	5577	O	TYR B 335	28.670	25.049	-23.361	1.00	18.55	O
ATOM	5578	N	ASN B 336	27.667	27.035	-23.045	1.00	18.05	N
ATOM	5579	CA	ASN B 336	28.875	27.699	-22.575	1.00	16.35	C
ATOM	5580	CB	ASN B 336	29.802	28.038	-23.759	1.00	16.48	C
ATOM	5581	CG	ASN B 336	29.196	29.058	-24.706	1.00	18.25	C
ATOM	5582	OD1	ASN B 336	29.286	30.257	-24.470	1.00	19.82	O
ATOM	5583	ND2	ASN B 336	28.575	28.581	-25.784	1.00	16.30	N
ATOM	5584	C	ASN B 336	28.506	28.941	-21.768	1.00	14.85	C
ATOM	5585	O	ASN B 336	27.333	29.311	-21.706	1.00	16.32	O
ATOM	5586	N	ASP B 337	29.496	29.579	-21.152	1.00	17.37	N
ATOM	5587	CA	ASP B 337	29.244	30.706	-20.243	1.00	20.35	C
ATOM	5588	CB	ASP B 337	30.517	31.065	-19.465	1.00	26.24	C
ATOM	5589	CG	ASP B 337	30.806	30.104	-18.328	1.00	35.62	C
ATOM	5590	OD1	ASP B 337	29.876	29.405	-17.859	1.00	36.85	O
ATOM	5591	OD2	ASP B 337	31.948	29.986	-17.835	1.00	40.28	O

ATOM	5592	C	ASP	B	337	28.711	31.964	-20.928	1.00	19.82	C
ATOM	5593	O	ASP	B	337	28.209	32.876	-20.265	1.00	20.87	O
ATOM	5594	N	TYR	B	338	28.833	32.008	-22.248	1.00	18.10	N
ATOM	5595	CA	TYR	B	338	28.425	33.168	-23.042	1.00	15.43	C
ATOM	5596	CB	TYR	B	338	29.674	33.795	-23.680	1.00	16.27	C
ATOM	5597	CG	TYR	B	338	30.715	34.063	-22.621	1.00	21.96	C
ATOM	5598	CD1	TYR	B	338	31.795	33.203	-22.442	1.00	21.12	C
ATOM	5599	CE1	TYR	B	338	32.737	33.432	-21.433	1.00	23.94	C
ATOM	5600	CZ	TYR	B	338	32.579	34.515	-20.587	1.00	26.73	C
ATOM	5601	OH	TYR	B	338	33.500	34.743	-19.593	1.00	29.92	O
ATOM	5602	CE2	TYR	B	338	31.502	35.372	-20.732	1.00	29.49	C
ATOM	5603	CD2	TYR	B	338	30.573	35.139	-21.742	1.00	24.47	C
ATOM	5604	C	TYR	B	338	27.392	32.783	-24.087	1.00	15.84	C
ATOM	5605	O	TYR	B	338	27.259	33.443	-25.127	1.00	16.66	O
ATOM	5606	N	PHE	B	339	26.634	31.725	-23.794	1.00	16.58	N
ATOM	5607	CA	PHE	B	339	25.730	31.132	-24.772	1.00	16.85	C
ATOM	5608	CB	PHE	B	339	24.904	30.013	-24.128	1.00	16.62	C
ATOM	5609	CG	PHE	B	339	24.243	29.096	-25.124	1.00	15.56	C
ATOM	5610	CD1	PHE	B	339	22.855	29.071	-25.244	1.00	15.90	C
ATOM	5611	CE1	PHE	B	339	22.227	28.207	-26.156	1.00	18.93	C
ATOM	5612	CZ	PHE	B	339	22.991	27.366	-26.957	1.00	17.30	C
ATOM	5613	CE2	PHE	B	339	24.387	27.376	-26.840	1.00	16.36	C
ATOM	5614	CD2	PHE	B	339	24.999	28.247	-25.921	1.00	17.94	C
ATOM	5615	C	PHE	B	339	24.798	32.147	-25.436	1.00	17.05	C
ATOM	5616	O	PHE	B	339	24.574	32.082	-26.646	1.00	16.14	O
ATOM	5617	N	GLU	B	340	24.261	33.072	-24.637	1.00	15.10	N
ATOM	5618	CA	GLU	B	340	23.326	34.093	-25.123	1.00	17.80	C
ATOM	5619	CB	GLU	B	340	22.724	34.874	-23.944	1.00	19.38	C
ATOM	5620	CG	GLU	B	340	23.686	35.848	-23.280	1.00	20.36	C
ATOM	5621	CD	GLU	B	340	24.521	35.225	-22.182	1.00	26.26	C
ATOM	5622	OE1	GLU	B	340	24.689	33.981	-22.151	1.00	23.37	O
ATOM	5623	OE2	GLU	B	340	25.024	35.995	-21.342	1.00	25.07	O
ATOM	5624	C	GLU	B	340	23.916	35.052	-26.175	1.00	18.64	C
ATOM	5625	O	GLU	B	340	23.175	35.633	-26.976	1.00	18.12	O
ATOM	5626	N	TYR	B	341	25.242	35.194	-26.187	1.00	15.98	N
ATOM	5627	CA	TYR	B	341	25.924	36.032	-27.178	1.00	16.73	C
ATOM	5628	CB	TYR	B	341	27.416	36.134	-26.845	1.00	19.05	C
ATOM	5629	CG	TYR	B	341	27.758	37.052	-25.696	1.00	26.76	C
ATOM	5630	CD1	TYR	B	341	27.329	36.776	-24.393	1.00	24.82	C
ATOM	5631	CE1	TYR	B	341	27.658	37.622	-23.332	1.00	34.92	C
ATOM	5632	CZ	TYR	B	341	28.436	38.751	-23.575	1.00	41.50	C
ATOM	5633	OH	TYR	B	341	28.778	39.600	-22.546	1.00	46.34	O
ATOM	5634	CE2	TYR	B	341	28.880	39.037	-24.858	1.00	39.25	C
ATOM	5635	CD2	TYR	B	341	28.542	38.185	-25.909	1.00	33.79	C
ATOM	5636	C	TYR	B	341	25.795	35.490	-28.599	1.00	17.17	C
ATOM	5637	O	TYR	B	341	25.974	36.231	-29.565	1.00	17.06	O
ATOM	5638	N	PHE	B	342	25.500	34.197	-28.723	1.00	14.52	N
ATOM	5639	CA	PHE	B	342	25.503	33.514	-30.011	1.00	15.63	C
ATOM	5640	CB	PHE	B	342	26.198	32.157	-29.879	1.00	14.35	C
ATOM	5641	CG	PHE	B	342	27.601	32.254	-29.368	1.00	14.28	C
ATOM	5642	CD1	PHE	B	342	27.890	31.970	-28.039	1.00	12.93	C
ATOM	5643	CE1	PHE	B	342	29.192	32.062	-27.560	1.00	17.24	C
ATOM	5644	CZ	PHE	B	342	30.223	32.447	-28.415	1.00	16.15	C
ATOM	5645	CE2	PHE	B	342	29.946	32.733	-29.748	1.00	13.71	C
ATOM	5646	CD2	PHE	B	342	28.638	32.649	-30.217	1.00	13.32	C
ATOM	5647	C	PHE	B	342	24.120	33.348	-30.645	1.00	15.41	C
ATOM	5648	O	PHE	B	342	23.972	32.656	-31.645	1.00	17.33	O
ATOM	5649	N	GLY	B	343	23.109	33.987	-30.070	1.00	17.62	N
ATOM	5650	CA	GLY	B	343	21.800	34.018	-30.700	1.00	17.69	C
ATOM	5651	C	GLY	B	343	21.823	34.853	-31.973	1.00	20.72	C
ATOM	5652	O	GLY	B	343	22.780	35.600	-32.194	1.00	21.53	O
ATOM	5653	N	PRO	B	344	20.777	34.758	-32.795	1.00	22.21	N
ATOM	5654	CA	PRO	B	344	19.593	33.925	-32.516	1.00	21.41	C

ATOM	5655	CB	PRO B 344	18.507	34.605	-33.356	1.00	25.40	C
ATOM	5656	CG	PRO B 344	19.247	35.132	-34.558	1.00	22.95	C
ATOM	5657	CD	PRO B 344	20.642	35.499	-34.064	1.00	23.41	C
ATOM	5658	C	PRO B 344	19.708	32.463	-32.950	1.00	22.19	C
ATOM	5659	O	PRO B 344	18.819	31.668	-32.634	1.00	22.73	O
ATOM	5660	N	ASP B 345	20.776	32.120	-33.665	1.00	19.79	N
ATOM	5661	CA	ASP B 345	20.925	30.794	-34.272	1.00	20.85	C
ATOM	5662	CB	ASP B 345	21.665	30.935	-35.603	1.00	23.79	C
ATOM	5663	CG	ASP B 345	22.993	31.662	-35.446	1.00	27.82	C
ATOM	5664	OD1	ASP B 345	22.977	32.900	-35.219	1.00	26.88	O
ATOM	5665	OD2	ASP B 345	24.094	31.071	-35.498	1.00	27.05	O
ATOM	5666	C	ASP B 345	21.658	29.770	-33.394	1.00	20.00	C
ATOM	5667	O	ASP B 345	21.391	28.568	-33.479	1.00	19.33	O
ATOM	5668	N	PHE B 346	22.596	30.249	-32.575	1.00	15.45	N
ATOM	5669	CA	PHE B 346	23.444	29.391	-31.733	1.00	16.59	C
ATOM	5670	CB	PHE B 346	22.627	28.754	-30.598	1.00	18.31	C
ATOM	5671	CG	PHE B 346	21.850	29.752	-29.803	1.00	17.16	C
ATOM	5672	CD1	PHE B 346	20.493	29.966	-30.060	1.00	17.32	C
ATOM	5673	CE1	PHE B 346	19.774	30.913	-29.333	1.00	16.00	C
ATOM	5674	CZ	PHE B 346	20.402	31.656	-28.351	1.00	17.43	C
ATOM	5675	CE2	PHE B 346	21.763	31.460	-28.089	1.00	16.60	C
ATOM	5676	CD2	PHE B 346	22.478	30.508	-28.818	1.00	17.69	C
ATOM	5677	C	PHE B 346	24.199	28.344	-32.545	1.00	17.04	C
ATOM	5678	O	PHE B 346	24.336	27.204	-32.119	1.00	15.05	O
ATOM	5679	N	LYS B 347	24.680	28.755	-33.719	1.00	13.94	N
ATOM	5680	CA	LYS B 347	25.537	27.914	-34.563	1.00	12.92	C
ATOM	5681	CB	LYS B 347	25.016	27.861	-36.006	1.00	15.71	C
ATOM	5682	CG	LYS B 347	23.581	27.343	-36.174	1.00	15.00	C
ATOM	5683	CD	LYS B 347	23.424	25.909	-35.698	1.00	19.25	C
ATOM	5684	CE	LYS B 347	21.972	25.437	-35.855	1.00	21.58	C
ATOM	5685	NZ	LYS B 347	21.775	24.059	-35.323	1.00	26.90	N
ATOM	5686	C	LYS B 347	26.951	28.454	-34.572	1.00	15.62	C
ATOM	5687	O	LYS B 347	27.182	29.648	-34.298	1.00	17.73	O
ATOM	5688	N	LEU B 348	27.903	27.581	-34.889	1.00	13.80	N
ATOM	5689	CA	LEU B 348	29.304	27.980	-34.981	1.00	12.59	C
ATOM	5690	CB	LEU B 348	30.195	26.730	-34.983	1.00	14.15	C
ATOM	5691	CG	LEU B 348	31.701	26.988	-35.138	1.00	18.02	C
ATOM	5692	CD1	LEU B 348	32.261	27.663	-33.894	1.00	15.14	C
ATOM	5693	CD2	LEU B 348	32.424	25.683	-35.436	1.00	18.12	C
ATOM	5694	C	LEU B 348	29.558	28.801	-36.250	1.00	14.60	C
ATOM	5695	O	LEU B 348	30.281	29.803	-36.237	1.00	17.18	O
ATOM	5696	N	HIS B 349	28.975	28.351	-37.355	1.00	17.56	N
ATOM	5697	CA	HIS B 349	29.233	28.959	-38.646	1.00	18.48	C
ATOM	5698	CB	HIS B 349	29.255	27.886	-39.734	1.00	19.04	C
ATOM	5699	CG	HIS B 349	30.434	26.977	-39.610	1.00	19.45	C
ATOM	5700	ND1	HIS B 349	31.701	27.354	-40.003	1.00	20.11	N
ATOM	5701	CE1	HIS B 349	32.549	26.376	-39.741	1.00	20.42	C
ATOM	5702	NE2	HIS B 349	31.885	25.393	-39.161	1.00	20.96	N
ATOM	5703	CD2	HIS B 349	30.561	25.748	-39.058	1.00	16.73	C
ATOM	5704	C	HIS B 349	28.280	30.107	-38.954	1.00	17.94	C
ATOM	5705	O	HIS B 349	27.141	30.117	-38.493	1.00	21.08	O
ATOM	5706	N	ILE B 350	28.777	31.085	-39.703	1.00	16.66	N
ATOM	5707	CA	ILE B 350	28.010	32.291	-40.019	1.00	18.20	C
ATOM	5708	CB	ILE B 350	28.774	33.564	-39.563	1.00	20.44	C
ATOM	5709	CG1	ILE B 350	30.085	33.723	-40.360	1.00	17.04	C
ATOM	5710	CD1	ILE B 350	30.768	35.078	-40.202	1.00	18.01	C
ATOM	5711	CG2	ILE B 350	29.034	33.523	-38.046	1.00	17.62	C
ATOM	5712	C	ILE B 350	27.700	32.370	-41.513	1.00	23.57	C
ATOM	5713	O	ILE B 350	28.431	31.829	-42.342	1.00	21.67	O
ATOM	5714	N	SER B 351	26.614	33.055	-41.848	1.00	24.46	N
ATOM	5715	CA	SER B 351	26.246	33.265	-43.238	1.00	25.27	C
ATOM	5716	CB	SER B 351	24.722	33.253	-43.378	1.00	32.47	C
ATOM	5717	OG	SER B 351	24.226	31.929	-43.255	1.00	37.46	O

ATOM	5718	C	SER B 351	26.818	34.597	-43.729	1.00	23.00	C
ATOM	5719	O	SER B 351	26.955	35.531	-42.946	1.00	25.43	O
ATOM	5720	N	PRO B 352	27.161	34.689	-45.010	1.00	22.15	N
ATOM	5721	CA	PRO B 352	27.561	35.979	-45.581	1.00	22.55	C
ATOM	5722	CB	PRO B 352	28.079	35.606	-46.974	1.00	23.89	C
ATOM	5723	CG	PRO B 352	27.444	34.311	-47.301	1.00	27.43	C
ATOM	5724	CD	PRO B 352	27.205	33.604	-46.006	1.00	22.28	C
ATOM	5725	C	PRO B 352	26.351	36.905	-45.677	1.00	24.72	C
ATOM	5726	O	PRO B 352	25.213	36.434	-45.593	1.00	21.06	O
ATOM	5727	N	SER B 353	26.601	38.203	-45.819	1.00	22.24	N
ATOM	5728	CA	SER B 353	25.536	39.175	-46.027	1.00	27.42	C
ATOM	5729	CB	SER B 353	25.919	40.507	-45.387	1.00	29.63	C
ATOM	5730	OG	SER B 353	26.965	41.121	-46.115	1.00	29.30	O
ATOM	5731	C	SER B 353	25.275	39.357	-47.524	1.00	24.32	C
ATOM	5732	O	SER B 353	25.951	38.747	-48.354	1.00	21.86	O
ATOM	5733	N	ASN B 354	24.294	40.190	-47.868	1.00	25.41	N
ATOM	5734	CA	ASN B 354	23.997	40.488	-49.269	1.00	29.42	C
ATOM	5735	CB	ASN B 354	22.496	40.738	-49.457	1.00	31.23	C
ATOM	5736	CG	ASN B 354	22.039	42.055	-48.847	1.00	31.90	C
ATOM	5737	OD1	ASN B 354	22.561	42.499	-47.825	1.00	34.12	O
ATOM	5738	ND2	ASN B 354	21.049	42.683	-49.476	1.00	35.65	N
ATOM	5739	C	ASN B 354	24.806	41.664	-49.834	1.00	31.29	C
ATOM	5740	O	ASN B 354	24.519	42.149	-50.934	1.00	34.78	O
ATOM	5741	N	MET B 355	25.810	42.118	-49.086	1.00	27.29	N
ATOM	5742	CA	MET B 355	26.679	43.198	-49.548	1.00	26.07	C
ATOM	5743	CB	MET B 355	27.676	43.610	-48.454	1.00	24.64	C
ATOM	5744	CG	MET B 355	28.919	42.733	-48.344	1.00	25.29	C
ATOM	5745	SD	MET B 355	30.126	43.349	-47.146	1.00	29.03	S
ATOM	5746	CE	MET B 355	30.445	44.986	-47.746	1.00	26.12	C
ATOM	5747	C	MET B 355	27.373	42.852	-50.871	1.00	25.28	C
ATOM	5748	O	MET B 355	27.770	41.700	-51.111	1.00	23.84	O
ATOM	5749	N	THR B 356	27.494	43.844	-51.745	1.00	25.91	N
ATOM	5750	CA	THR B 356	28.084	43.604	-53.058	1.00	26.17	C
ATOM	5751	CB	THR B 356	27.727	44.736	-54.057	1.00	34.79	C
ATOM	5752	OG1	THR B 356	28.239	45.984	-53.577	1.00	40.69	O
ATOM	5753	CG2	THR B 356	26.221	44.969	-54.097	1.00	34.12	C
ATOM	5754	C	THR B 356	29.596	43.438	-52.948	1.00	24.79	C
ATOM	5755	O	THR B 356	30.258	44.139	-52.172	1.00	24.02	O
ATOM	5756	N	ASN B 357	30.122	42.486	-53.713	1.00	25.66	N
ATOM	5757	CA	ASN B 357	31.553	42.247	-53.782	1.00	23.29	C
ATOM	5758	CB	ASN B 357	31.826	40.772	-54.089	1.00	22.78	C
ATOM	5759	CG	ASN B 357	33.302	40.453	-54.181	1.00	22.26	C
ATOM	5760	OD1	ASN B 357	34.155	41.294	-53.901	1.00	21.65	O
ATOM	5761	ND2	ASN B 357	33.616	39.224	-54.578	1.00	25.78	N
ATOM	5762	C	ASN B 357	32.188	43.162	-54.832	1.00	27.66	C
ATOM	5763	O	ASN B 357	32.059	42.923	-56.032	1.00	28.42	O
ATOM	5764	N	GLN B 358	32.887	44.195	-54.369	1.00	23.90	N
ATOM	5765	CA	GLN B 358	33.490	45.191	-55.261	1.00	28.42	C
ATOM	5766	CB	GLN B 358	33.810	46.478	-54.495	1.00	30.86	C
ATOM	5767	CG	BGLN B 358	32.595	47.174	-53.878	0.35	29.61	C
ATOM	5768	CG	AGLN B 358	32.600	47.208	-53.947	0.65	36.48	C
ATOM	5769	CD	BGLN B 358	31.579	47.660	-54.907	0.35	29.27	C
ATOM	5770	CD	AGLN B 358	32.608	48.685	-54.293	0.65	40.09	C
ATOM	5771	OE1BGLN	B 358	30.373	47.602	-54.664	0.35	30.72	O
ATOM	5772	OE1AGLN	B 358	32.031	49.092	-55.300	0.65	41.77	O
ATOM	5773	NE2BGLN	B 358	32.061	48.145	-56.046	0.35	28.09	N
ATOM	5774	NE2AGLN	B 358	33.260	49.490	-53.460	0.65	42.44	N
ATOM	5775	C	GLN B 358	34.740	44.676	-55.984	1.00	28.04	C
ATOM	5776	O	GLN B 358	35.248	45.328	-56.896	1.00	30.40	O
ATOM	5777	N	ASN B 359	35.224	43.508	-55.567	1.00	24.95	N
ATOM	5778	CA	ASN B 359	36.350	42.836	-56.204	1.00	25.16	C
ATOM	5779	CB	ASN B 359	37.075	41.951	-55.187	1.00	24.25	C
ATOM	5780	CG	ASN B 359	37.422	42.696	-53.928	1.00	22.10	C

ATOM	5781	OD1	ASN	B	359	36.602	42.809	-53.008	1.00	23.40	O
ATOM	5782	ND2	ASN	B	359	38.624	43.246	-53.891	1.00	18.56	N
ATOM	5783	C	ASN	B	359	35.912	41.978	-57.384	1.00	28.79	C
ATOM	5784	O	ASN	B	359	35.515	40.819	-57.211	1.00	29.16	O
ATOM	5785	N	THR	B	360	35.990	42.542	-58.583	1.00	25.53	N
ATOM	5786	CA	THR	B	360	35.602	41.804	-59.783	1.00	25.94	C
ATOM	5787	CB	THR	B	360	35.589	42.722	-61.022	1.00	22.16	C
ATOM	5788	OG1	THR	B	360	36.909	43.235	-61.233	1.00	23.14	O
ATOM	5789	CG2	THR	B	360	34.746	43.978	-60.783	1.00	23.10	C
ATOM	5790	C	THR	B	360	36.588	40.659	-60.001	1.00	23.04	C
ATOM	5791	O	THR	B	360	37.729	40.719	-59.532	1.00	24.19	O
ATOM	5792	N	PRO	B	361	36.160	39.609	-60.696	1.00	24.77	N
ATOM	5793	CA	PRO	B	361	37.074	38.517	-61.044	1.00	23.25	C
ATOM	5794	CB	PRO	B	361	36.217	37.622	-61.948	1.00	26.99	C
ATOM	5795	CG	PRO	B	361	34.828	37.887	-61.502	1.00	27.31	C
ATOM	5796	CD	PRO	B	361	34.789	39.358	-61.181	1.00	24.82	C
ATOM	5797	C	PRO	B	361	38.313	39.025	-61.784	1.00	22.09	C
ATOM	5798	O	PRO	B	361	39.413	38.532	-61.541	1.00	23.23	O
ATOM	5799	N	GLU	B	362	38.133	40.021	-62.651	1.00	20.42	N
ATOM	5800	CA	GLU	B	362	39.229	40.566	-63.447	1.00	20.06	C
ATOM	5801	CB	GLU	B	362	38.681	41.488	-64.548	1.00	23.85	C
ATOM	5802	CG	GLU	B	362	37.759	40.801	-65.553	1.00	27.65	C
ATOM	5803	CD	GLU	B	362	36.381	40.463	-64.999	1.00	31.94	C
ATOM	5804	OE1	GLU	B	362	35.870	41.176	-64.102	1.00	27.43	O
ATOM	5805	OE2	GLU	B	362	35.803	39.456	-65.463	1.00	41.15	O
ATOM	5806	C	GLU	B	362	40.221	41.331	-62.575	1.00	16.50	C
ATOM	5807	O	GLU	B	362	41.436	41.207	-62.751	1.00	18.94	O
ATOM	5808	N	TYR	B	363	39.695	42.135	-61.651	1.00	17.96	N
ATOM	5809	CA	TYR	B	363	40.532	42.843	-60.680	1.00	16.41	C
ATOM	5810	CB	TYR	B	363	39.658	43.650	-59.710	1.00	20.60	C
ATOM	5811	CG	TYR	B	363	40.413	44.276	-58.550	1.00	21.67	C
ATOM	5812	CD1	TYR	B	363	40.514	43.618	-57.318	1.00	22.25	C
ATOM	5813	CE1	TYR	B	363	41.206	44.189	-56.247	1.00	18.66	C
ATOM	5814	CZ	TYR	B	363	41.803	45.433	-56.403	1.00	23.16	C
ATOM	5815	OH	TYR	B	363	42.484	45.994	-55.347	1.00	20.84	O
ATOM	5816	CE2	TYR	B	363	41.711	46.114	-57.615	1.00	21.06	C
ATOM	5817	CD2	TYR	B	363	41.017	45.530	-58.681	1.00	21.76	C
ATOM	5818	C	TYR	B	363	41.388	41.841	-59.921	1.00	17.00	C
ATOM	5819	O	TYR	B	363	42.608	41.980	-59.846	1.00	16.86	O
ATOM	5820	N	MET	B	364	40.737	40.817	-59.374	1.00	17.71	N
ATOM	5821	CA	MET	B	364	41.428	39.805	-58.570	1.00	21.33	C
ATOM	5822	CB	MET	B	364	40.447	38.729	-58.082	1.00	23.52	C
ATOM	5823	CG	MET	B	364	39.391	39.204	-57.073	1.00	31.29	C
ATOM	5824	SD	MET	B	364	40.027	40.094	-55.625	1.00	41.93	S
ATOM	5825	CE	MET	B	364	40.861	38.764	-54.724	1.00	40.02	C
ATOM	5826	C	MET	B	364	42.558	39.157	-59.361	1.00	21.25	C
ATOM	5827	O	MET	B	364	43.680	39.033	-58.868	1.00	20.57	O
ATOM	5828	N	GLU	B	365	42.269	38.760	-60.598	1.00	24.03	N
ATOM	5829	CA	GLU	B	365	43.273	38.084	-61.409	1.00	23.69	C
ATOM	5830	CB	GLU	B	365	42.631	37.349	-62.583	1.00	26.85	C
ATOM	5831	CG	GLU	B	365	43.409	36.111	-63.006	1.00	40.67	C
ATOM	5832	CD	GLU	B	365	43.209	34.914	-62.085	1.00	40.61	C
ATOM	5833	OE1	GLU	B	365	43.831	33.868	-62.356	1.00	46.88	O
ATOM	5834	OE2	GLU	B	365	42.438	35.001	-61.105	1.00	40.92	O
ATOM	5835	C	GLU	B	365	44.384	39.019	-61.882	1.00	22.51	C
ATOM	5836	O	GLU	B	365	45.544	38.611	-61.977	1.00	20.81	O
ATOM	5837	N	LYS	B	366	44.037	40.274	-62.158	1.00	19.77	N
ATOM	5838	CA	LYS	B	366	45.040	41.245	-62.568	1.00	20.86	C
ATOM	5839	CB	LYS	B	366	44.379	42.558	-63.009	1.00	21.02	C
ATOM	5840	CG	LYS	B	366	45.343	43.612	-63.522	1.00	24.81	C
ATOM	5841	CD	LYS	B	366	46.024	43.171	-64.799	1.00	24.80	C
ATOM	5842	CE	LYS	B	366	46.979	44.237	-65.283	1.00	29.87	C
ATOM	5843	NZ	LYS	B	366	47.726	43.788	-66.488	1.00	31.06	N

ATOM	5844	C	LYS	B	366	46.064	41.491	-61.459	1.00	19.69	C
ATOM	5845	O	LYS	B	366	47.276	41.498	-61.715	1.00	19.63	O
ATOM	5846	N	ILE	B	367	45.576	41.705	-60.235	1.00	20.09	N
ATOM	5847	CA	ILE	B	367	46.462	41.907	-59.087	1.00	16.38	C
ATOM	5848	CB	ILE	B	367	45.662	42.281	-57.788	1.00	20.43	C
ATOM	5849	CG1	ILE	B	367	44.787	43.539	-57.981	1.00	20.60	C
ATOM	5850	CD1	ILE	B	367	45.520	44.777	-58.490	1.00	26.81	C
ATOM	5851	CG2	ILE	B	367	46.610	42.463	-56.572	1.00	20.03	C
ATOM	5852	C	ILE	B	367	47.319	40.656	-58.873	1.00	17.91	C
ATOM	5853	O	ILE	B	367	48.530	40.755	-58.669	1.00	18.33	O
ATOM	5854	N	LYS	B	368	46.688	39.488	-58.947	1.00	19.12	N
ATOM	5855	CA	LYS	B	368	47.386	38.219	-58.750	1.00	23.39	C
ATOM	5856	CB	LYS	B	368	46.396	37.056	-58.848	1.00	24.64	C
ATOM	5857	CG	LYS	B	368	47.019	35.673	-58.682	1.00	33.29	C
ATOM	5858	CD	LYS	B	368	46.033	34.670	-58.084	1.00	39.24	C
ATOM	5859	CE	LYS	B	368	45.044	34.128	-59.110	1.00	40.35	C
ATOM	5860	NZ	LYS	B	368	45.718	33.651	-60.351	1.00	46.81	N
ATOM	5861	C	LYS	B	368	48.532	38.065	-59.758	1.00	26.07	C
ATOM	5862	O	LYS	B	368	49.649	37.683	-59.391	1.00	23.03	O
ATOM	5863	N	GLN	B	369	48.261	38.399	-61.016	1.00	28.49	N
ATOM	5864	CA	GLN	B	369	49.282	38.314	-62.061	1.00	30.11	C
ATOM	5865	CB	GLN	B	369	48.655	38.458	-63.451	1.00	34.83	C
ATOM	5866	CG	GLN	B	369	47.970	37.157	-63.914	1.00	42.09	C
ATOM	5867	CD	GLN	B	369	47.366	37.232	-65.310	1.00	47.15	C
ATOM	5868	OE1	GLN	B	369	47.622	38.173	-66.062	1.00	51.28	O
ATOM	5869	NE2	GLN	B	369	46.562	36.231	-65.656	1.00	47.55	N
ATOM	5870	C	GLN	B	369	50.443	39.287	-61.826	1.00	27.20	C
ATOM	5871	O	GLN	B	369	51.601	38.937	-62.055	1.00	25.53	O
ATOM	5872	N	ARG	B	370	50.142	40.486	-61.327	1.00	26.77	N
ATOM	5873	CA	ARG	B	370	51.195	41.418	-60.906	1.00	27.77	C
ATOM	5874	CB	ARG	B	370	50.603	42.763	-60.481	1.00	33.46	C
ATOM	5875	CG	ARG	B	370	51.550	43.942	-60.666	1.00	42.22	C
ATOM	5876	CD	ARG	B	370	51.253	44.785	-61.906	1.00	47.41	C
ATOM	5877	NE	ARG	B	370	50.595	46.053	-61.577	1.00	48.46	N
ATOM	5878	CZ	ARG	B	370	49.501	46.513	-62.175	1.00	49.43	C
ATOM	5879	NH1	ARG	B	370	48.981	47.676	-61.807	1.00	48.54	N
ATOM	5880	NH2	ARG	B	370	48.922	45.818	-63.143	1.00	50.52	N
ATOM	5881	C	ARG	B	370	52.072	40.832	-59.784	1.00	29.39	C
ATOM	5882	O	ARG	B	370	53.308	40.909	-59.842	1.00	26.86	O
ATOM	5883	N	LEU	B	371	51.437	40.230	-58.779	1.00	26.22	N
ATOM	5884	CA	LEU	B	371	52.179	39.633	-57.661	1.00	24.41	C
ATOM	5885	CB	LEU	B	371	51.240	39.237	-56.514	1.00	20.96	C
ATOM	5886	CG	LEU	B	371	50.478	40.375	-55.820	1.00	24.90	C
ATOM	5887	CD1	LEU	B	371	49.713	39.841	-54.621	1.00	19.71	C
ATOM	5888	CD2	LEU	B	371	51.397	41.502	-55.393	1.00	28.47	C
ATOM	5889	C	LEU	B	371	53.018	38.436	-58.107	1.00	25.30	C
ATOM	5890	O	LEU	B	371	54.147	38.255	-57.642	1.00	25.42	O
ATOM	5891	N	PHE	B	372	52.460	37.623	-59.003	1.00	26.79	N
ATOM	5892	CA	PHE	B	372	53.174	36.476	-59.563	1.00	27.25	C
ATOM	5893	CB	PHE	B	372	52.288	35.709	-60.544	1.00	28.78	C
ATOM	5894	CG	PHE	B	372	51.292	34.780	-59.896	1.00	31.97	C
ATOM	5895	CD1	PHE	B	372	51.434	34.364	-58.575	1.00	36.19	C
ATOM	5896	CE1	PHE	B	372	50.508	33.500	-57.995	1.00	33.85	C
ATOM	5897	CZ	PHE	B	372	49.429	33.039	-58.736	1.00	37.46	C
ATOM	5898	CE2	PHE	B	372	49.274	33.448	-60.059	1.00	39.08	C
ATOM	5899	CD2	PHE	B	372	50.206	34.313	-60.628	1.00	36.53	C
ATOM	5900	C	PHE	B	372	54.456	36.922	-60.276	1.00	27.24	C
ATOM	5901	O	PHE	B	372	55.477	36.243	-60.201	1.00	28.64	O
ATOM	5902	N	GLU	B	373	54.387	38.061	-60.965	1.00	27.76	N
ATOM	5903	CA	GLU	B	373	55.540	38.636	-61.662	1.00	33.30	C
ATOM	5904	CB	GLU	B	373	55.108	39.802	-62.560	1.00	38.12	C
ATOM	5905	CG	GLU	B	373	54.440	39.374	-63.863	1.00	45.65	C
ATOM	5906	CD	GLU	B	373	53.889	40.542	-64.676	1.00	51.54	C

ATOM	5907	OE1	GLU	B	373	53.318	41.485	-64.082	1.00	53.94	O
ATOM	5908	OE2	GLU	B	373	54.016	40.516	-65.920	1.00	52.44	O
ATOM	5909	C	GLU	B	373	56.619	39.094	-60.682	1.00	33.67	C
ATOM	5910	O	GLU	B	373	57.813	38.916	-60.940	1.00	33.16	O
ATOM	5911	N	ASN	B	374	56.196	39.682	-59.562	1.00	27.10	N
ATOM	5912	CA	ASN	B	374	57.122	40.072	-58.499	1.00	26.87	C
ATOM	5913	CB	ASN	B	374	56.408	40.905	-57.419	1.00	26.49	C
ATOM	5914	CG	ASN	B	374	55.968	42.276	-57.920	1.00	30.69	C
ATOM	5915	OD1	ASN	B	374	56.424	42.750	-58.964	1.00	30.02	O
ATOM	5916	ND2	ASN	B	374	55.075	42.921	-57.170	1.00	25.15	N
ATOM	5917	C	ASN	B	374	57.791	38.860	-57.861	1.00	24.23	C
ATOM	5918	O	ASN	B	374	58.975	38.896	-57.532	1.00	28.17	O
ATOM	5919	N	LEU	B	375	57.018	37.793	-57.681	1.00	24.17	N
ATOM	5920	CA	LEU	B	375	57.493	36.575	-57.033	1.00	28.26	C
ATOM	5921	CB	LEU	B	375	56.317	35.643	-56.729	1.00	27.42	C
ATOM	5922	CG	LEU	B	375	55.792	35.464	-55.296	1.00	32.75	C
ATOM	5923	CD1	LEU	B	375	56.436	36.390	-54.264	1.00	30.58	C
ATOM	5924	CD2	LEU	B	375	54.280	35.598	-55.273	1.00	29.95	C
ATOM	5925	C	LEU	B	375	58.537	35.835	-57.867	1.00	32.12	C
ATOM	5926	O	LEU	B	375	59.448	35.221	-57.315	1.00	33.79	O
ATOM	5927	N	ARG	B	376	58.411	35.882	-59.192	1.00	35.49	N
ATOM	5928	CA	ARG	B	376	59.414	35.235	-60.041	1.00	38.79	C
ATOM	5929	CB	ARG	B	376	58.852	34.808	-61.410	1.00	43.24	C
ATOM	5930	CG	ARG	B	376	58.226	35.905	-62.258	1.00	48.80	C
ATOM	5931	CD	ARG	B	376	57.489	35.383	-63.495	1.00	53.80	C
ATOM	5932	NE	ARG	B	376	56.433	34.430	-63.145	1.00	56.93	N
ATOM	5933	CZ	ARG	B	376	55.136	34.599	-63.403	1.00	58.64	C
ATOM	5934	NH1	ARG	B	376	54.706	35.691	-64.026	1.00	58.76	N
ATOM	5935	NH2	ARG	B	376	54.263	33.668	-63.037	1.00	58.42	N
ATOM	5936	C	ARG	B	376	60.714	36.046	-60.154	1.00	38.60	C
ATOM	5937	O	ARG	B	376	61.686	35.586	-60.757	1.00	40.47	O
ATOM	5938	N	MET	B	377	60.729	37.233	-59.545	1.00	37.30	N
ATOM	5939	CA	MET	B	377	61.953	38.028	-59.399	1.00	38.42	C
ATOM	5940	CB	MET	B	377	61.627	39.494	-59.086	1.00	41.69	C
ATOM	5941	CG	MET	B	377	61.051	40.299	-60.247	1.00	44.31	C
ATOM	5942	SD	MET	B	377	62.090	40.333	-61.733	1.00	49.16	S
ATOM	5943	CE	MET	B	377	63.649	41.041	-61.081	1.00	47.78	C
ATOM	5944	C	MET	B	377	62.897	37.474	-58.321	1.00	37.34	C
ATOM	5945	O	MET	B	377	64.045	37.904	-58.224	1.00	38.94	O
ATOM	5946	N	LEU	B	378	62.411	36.537	-57.506	1.00	37.50	N
ATOM	5947	CA	LEU	B	378	63.251	35.871	-56.505	1.00	40.07	C
ATOM	5948	CB	LEU	B	378	62.401	35.146	-55.451	1.00	38.30	C
ATOM	5949	CG	LEU	B	378	61.461	35.889	-54.485	1.00	38.69	C
ATOM	5950	CD1	LEU	B	378	61.289	35.081	-53.204	1.00	36.30	C
ATOM	5951	CD2	LEU	B	378	61.910	37.304	-54.158	1.00	37.32	C
ATOM	5952	C	LEU	B	378	64.200	34.877	-57.181	1.00	39.73	C
ATOM	5953	O	LEU	B	378	65.232	34.509	-56.618	1.00	44.95	O
ATOM	5954	ZN	ZN	B	379	42.346	44.764	-38.237	1.00	17.93	ZN
ATOM	5955	NA	NA	B	380	46.027	41.848	-43.569	1.00	9.14	NA
ATOM	5956	O3	TSS	B	381	37.461	52.572	-36.947	1.00	33.11	O
ATOM	5957	C9	TSS	B	381	38.404	52.752	-36.197	1.00	32.92	C
ATOM	5958	C10	TSS	B	381	38.110	53.205	-34.787	1.00	29.81	C
ATOM	5959	C11	TSS	B	381	39.100	53.671	-33.921	1.00	27.95	C
ATOM	5960	C12	TSS	B	381	38.772	54.092	-32.631	1.00	31.28	C
ATOM	5961	C13	TSS	B	381	37.447	54.055	-32.186	1.00	31.71	C
ATOM	5962	N2	TSS	B	381	37.121	54.486	-30.882	1.00	35.47	N
ATOM	5963	C17	TSS	B	381	35.730	54.599	-30.462	1.00	36.27	C
ATOM	5964	C16	TSS	B	381	38.163	54.844	-29.926	1.00	35.88	C
ATOM	5965	C14	TSS	B	381	36.453	53.596	-33.053	1.00	29.85	C
ATOM	5966	C15	TSS	B	381	36.782	53.175	-34.341	1.00	33.15	C
ATOM	5967	C2	TSS	B	381	39.776	52.519	-36.799	1.00	34.35	C
ATOM	5968	C1	TSS	B	381	40.800	53.576	-36.372	1.00	38.16	C
ATOM	5969	C3	TSS	B	381	40.233	51.062	-36.681	1.00	31.97	C

ATOM	5970	C4	TSS	B	381	41.360	50.524	-36.157	1.00	31.33	C
ATOM	5971	C5	TSS	B	381	42.455	51.343	-35.524	1.00	29.99	C
ATOM	5972	C6	TSS	B	381	41.492	49.050	-36.251	1.00	29.95	C
ATOM	5973	C7	TSS	B	381	42.656	48.400	-36.150	1.00	30.65	C
ATOM	5974	C8	TSS	B	381	42.721	46.921	-36.289	1.00	34.29	C
ATOM	5975	O1	TSS	B	381	41.701	46.246	-36.275	1.00	28.41	O
ATOM	5976	N1	TSS	B	381	43.901	46.324	-36.473	1.00	37.90	N
ATOM	5977	O2	TSS	B	381	43.999	45.329	-37.223	1.00	27.54	O
ATOM	5978	N	LYS	C	14	51.320	10.742	65.776	1.00	56.13	N
ATOM	5979	CA	LYS	C	14	51.945	11.252	64.520	1.00	54.35	C
ATOM	5980	CB	LYS	C	14	50.906	11.332	63.401	1.00	56.41	C
ATOM	5981	CG	LYS	C	14	50.676	10.020	62.669	1.00	56.91	C
ATOM	5982	CD	LYS	C	14	49.814	10.231	61.437	1.00	57.97	C
ATOM	5983	CE	LYS	C	14	48.641	9.269	61.412	1.00	59.08	C
ATOM	5984	NZ	LYS	C	14	47.844	9.411	60.163	1.00	59.01	N
ATOM	5985	C	LYS	C	14	52.603	12.615	64.733	1.00	53.64	C
ATOM	5986	O	LYS	C	14	51.982	13.537	65.265	1.00	52.34	O
ATOM	5987	N	LYS	C	15	53.863	12.726	64.312	1.00	49.97	N
ATOM	5988	CA	LYS	C	15	54.660	13.937	64.501	1.00	47.84	C
ATOM	5989	CB	LYS	C	15	56.150	13.589	64.495	1.00	50.23	C
ATOM	5990	CG	LYS	C	15	56.814	13.617	65.859	1.00	53.91	C
ATOM	5991	CD	LYS	C	15	58.332	13.569	65.729	1.00	55.56	C
ATOM	5992	CE	LYS	C	15	58.934	14.969	65.713	1.00	56.51	C
ATOM	5993	NZ	LYS	C	15	60.420	14.932	65.609	1.00	57.29	N
ATOM	5994	C	LYS	C	15	54.379	14.992	63.432	1.00	44.54	C
ATOM	5995	O	LYS	C	15	54.270	14.676	62.243	1.00	43.90	O
ATOM	5996	N	VAL	C	16	54.265	16.245	63.865	1.00	40.56	N
ATOM	5997	CA	VAL	C	16	54.073	17.369	62.953	1.00	35.92	C
ATOM	5998	CB	VAL	C	16	52.678	18.041	63.130	1.00	36.26	C
ATOM	5999	CG1	VAL	C	16	52.532	19.287	62.238	1.00	34.82	C
ATOM	6000	CG2	VAL	C	16	51.552	17.058	62.849	1.00	34.32	C
ATOM	6001	C	VAL	C	16	55.181	18.396	63.172	1.00	38.43	C
ATOM	6002	O	VAL	C	16	55.368	18.898	64.287	1.00	36.80	O
ATOM	6003	N	CYS	C	17	55.928	18.678	62.109	1.00	34.12	N
ATOM	6004	CA	CYS	C	17	56.909	19.758	62.119	1.00	35.98	C
ATOM	6005	CB	CYS	C	17	58.241	19.303	61.523	1.00	38.13	C
ATOM	6006	SG	CYS	C	17	59.189	18.232	62.630	1.00	48.14	S
ATOM	6007	C	CYS	C	17	56.346	20.938	61.348	1.00	34.14	C
ATOM	6008	O	CYS	C	17	55.773	20.778	60.270	1.00	33.22	O
ATOM	6009	N	TYR	C	18	56.515	22.126	61.909	1.00	31.79	N
ATOM	6010	CA	TYR	C	18	55.868	23.321	61.391	1.00	30.51	C
ATOM	6011	CB	TYR	C	18	54.782	23.760	62.379	1.00	31.64	C
ATOM	6012	CG	TYR	C	18	54.054	25.059	62.088	1.00	30.54	C
ATOM	6013	CD1	TYR	C	18	54.609	26.291	62.444	1.00	31.33	C
ATOM	6014	CE1	TYR	C	18	53.930	27.482	62.205	1.00	30.57	C
ATOM	6015	CZ	TYR	C	18	52.673	27.445	61.625	1.00	31.75	C
ATOM	6016	OH	TYR	C	18	51.996	28.620	61.394	1.00	36.63	O
ATOM	6017	CE2	TYR	C	18	52.094	26.235	61.278	1.00	30.16	C
ATOM	6018	CD2	TYR	C	18	52.782	25.052	61.520	1.00	30.00	C
ATOM	6019	C	TYR	C	18	56.922	24.395	61.195	1.00	30.62	C
ATOM	6020	O	TYR	C	18	57.765	24.615	62.066	1.00	28.76	O
ATOM	6021	N	TYR	C	19	56.874	25.056	60.043	1.00	29.55	N
ATOM	6022	CA	TYR	C	19	57.892	26.032	59.683	1.00	33.29	C
ATOM	6023	CB	TYR	C	19	58.561	25.648	58.353	1.00	37.08	C
ATOM	6024	CG	TYR	C	19	59.441	24.426	58.502	1.00	37.83	C
ATOM	6025	CD1	TYR	C	19	58.920	23.145	58.335	1.00	37.23	C
ATOM	6026	CE1	TYR	C	19	59.713	22.023	58.499	1.00	40.45	C
ATOM	6027	CZ	TYR	C	19	61.045	22.169	58.839	1.00	40.52	C
ATOM	6028	OH	TYR	C	19	61.827	21.049	58.997	1.00	43.89	O
ATOM	6029	CE2	TYR	C	19	61.591	23.429	59.020	1.00	38.55	C
ATOM	6030	CD2	TYR	C	19	60.785	24.550	58.857	1.00	37.99	C
ATOM	6031	C	TYR	C	19	57.320	27.436	59.643	1.00	34.72	C
ATOM	6032	O	TYR	C	19	56.267	27.679	59.049	1.00	33.04	O

ATOM	6033	N	TYR	C	20	58.014	28.355	60.303	1.00	34.11	N
ATOM	6034	CA	TYR	C	20	57.608	29.752	60.311	1.00	36.91	C
ATOM	6035	CB	TYR	C	20	56.538	29.990	61.379	1.00	39.51	C
ATOM	6036	CG	TYR	C	20	56.064	31.424	61.490	1.00	40.24	C
ATOM	6037	CD1	TYR	C	20	56.529	32.251	62.515	1.00	40.22	C
ATOM	6038	CE1	TYR	C	20	56.095	33.568	62.631	1.00	40.05	C
ATOM	6039	CZ	TYR	C	20	55.181	34.071	61.717	1.00	39.40	C
ATOM	6040	OH	TYR	C	20	54.756	35.374	61.834	1.00	38.35	O
ATOM	6041	CE2	TYR	C	20	54.701	33.269	60.686	1.00	39.14	C
ATOM	6042	CD2	TYR	C	20	55.140	31.950	60.581	1.00	39.75	C
ATOM	6043	C	TYR	C	20	58.807	30.642	60.570	1.00	38.24	C
ATOM	6044	O	TYR	C	20	59.625	30.351	61.443	1.00	39.61	O
ATOM	6045	N	ASP	C	21	58.911	31.714	59.791	1.00	38.63	N
ATOM	6046	CA	ASP	C	21	59.870	32.775	60.070	1.00	43.47	C
ATOM	6047	CB	ASP	C	21	60.817	33.001	58.889	1.00	43.17	C
ATOM	6048	CG	ASP	C	21	61.911	34.006	59.208	1.00	45.80	C
ATOM	6049	OD1	ASP	C	21	63.067	33.585	59.423	1.00	44.46	O
ATOM	6050	OD2	ASP	C	21	61.700	35.236	59.280	1.00	46.10	O
ATOM	6051	C	ASP	C	21	59.116	34.056	60.410	1.00	44.63	C
ATOM	6052	O	ASP	C	21	58.243	34.486	59.653	1.00	46.69	O
ATOM	6053	N	GLY	C	22	59.467	34.660	61.544	1.00	48.02	N
ATOM	6054	CA	GLY	C	22	58.788	35.843	62.053	1.00	47.89	C
ATOM	6055	C	GLY	C	22	58.770	37.052	61.132	1.00	49.14	C
ATOM	6056	O	GLY	C	22	57.952	37.957	61.313	1.00	49.30	O
ATOM	6057	N	ASP	C	23	59.666	37.063	60.146	1.00	47.56	N
ATOM	6058	CA	ASP	C	23	59.792	38.187	59.217	1.00	46.80	C
ATOM	6059	CB	ASP	C	23	61.258	38.387	58.818	1.00	51.43	C
ATOM	6060	CG	ASP	C	23	62.037	39.193	59.844	1.00	55.39	C
ATOM	6061	OD1	ASP	C	23	62.717	38.584	60.697	1.00	56.21	O
ATOM	6062	OD2	ASP	C	23	62.025	40.441	59.874	1.00	56.78	O
ATOM	6063	C	ASP	C	23	58.916	38.057	57.968	1.00	43.49	C
ATOM	6064	O	ASP	C	23	58.708	39.039	57.248	1.00	39.90	O
ATOM	6065	N	ILE	C	24	58.398	36.852	57.719	1.00	41.59	N
ATOM	6066	CA	ILE	C	24	57.601	36.575	56.518	1.00	40.03	C
ATOM	6067	CB	ILE	C	24	57.095	35.093	56.497	1.00	42.02	C
ATOM	6068	CG1	ILE	C	24	56.699	34.673	55.077	1.00	42.60	C
ATOM	6069	CD1	ILE	C	24	57.870	34.584	54.107	1.00	43.07	C
ATOM	6070	CG2	ILE	C	24	55.942	34.870	57.482	1.00	43.14	C
ATOM	6071	C	ILE	C	24	56.456	37.577	56.292	1.00	37.88	C
ATOM	6072	O	ILE	C	24	56.230	38.023	55.165	1.00	37.83	O
ATOM	6073	N	GLY	C	25	55.769	37.944	57.370	1.00	37.67	N
ATOM	6074	CA	GLY	C	25	54.648	38.867	57.303	1.00	39.86	C
ATOM	6075	C	GLY	C	25	55.018	40.318	57.037	1.00	40.03	C
ATOM	6076	O	GLY	C	25	54.129	41.157	56.882	1.00	40.76	O
ATOM	6077	N	ASN	C	26	56.317	40.612	56.978	1.00	40.10	N
ATOM	6078	CA	ASN	C	26	56.803	41.981	56.771	1.00	42.47	C
ATOM	6079	CB	ASN	C	26	58.086	42.230	57.575	1.00	45.32	C
ATOM	6080	CG	ASN	C	26	57.864	42.140	59.072	1.00	47.53	C
ATOM	6081	OD1	ASN	C	26	56.912	42.709	59.609	1.00	47.02	O
ATOM	6082	ND2	ASN	C	26	58.746	41.418	59.755	1.00	48.52	N
ATOM	6083	C	ASN	C	26	57.027	42.357	55.309	1.00	43.30	C
ATOM	6084	O	ASN	C	26	57.258	43.526	54.990	1.00	43.41	O
ATOM	6085	N	TYR	C	27	56.966	41.365	54.426	1.00	40.79	N
ATOM	6086	CA	TYR	C	27	57.113	41.605	52.992	1.00	39.26	C
ATOM	6087	CB	TYR	C	27	57.645	40.353	52.290	1.00	38.38	C
ATOM	6088	CG	TYR	C	27	59.004	39.942	52.813	1.00	39.03	C
ATOM	6089	CD1	TYR	C	27	59.126	38.972	53.809	1.00	39.67	C
ATOM	6090	CE1	TYR	C	27	60.373	38.601	54.302	1.00	42.53	C
ATOM	6091	CZ	TYR	C	27	61.517	39.210	53.801	1.00	43.32	C
ATOM	6092	OH	TYR	C	27	62.755	38.849	54.285	1.00	45.81	O
ATOM	6093	CE2	TYR	C	27	61.420	40.180	52.818	1.00	42.22	C
ATOM	6094	CD2	TYR	C	27	60.166	40.544	52.332	1.00	39.21	C
ATOM	6095	C	TYR	C	27	55.806	42.094	52.378	1.00	40.23	C

ATOM	6096	O	TYR	C	27	54.724	41.621	52.730	1.00	39.76	O
ATOM	6097	N	TYR	C	28	55.920	43.052	51.465	1.00	38.98	N
ATOM	6098	CA	TYR	C	28	54.760	43.752	50.930	1.00	38.74	C
ATOM	6099	CB	TYR	C	28	54.726	45.178	51.495	1.00	42.26	C
ATOM	6100	CG	TYR	C	28	53.410	45.909	51.331	1.00	45.41	C
ATOM	6101	CD1	TYR	C	28	52.226	45.394	51.867	1.00	47.50	C
ATOM	6102	CE1	TYR	C	28	51.018	46.070	51.724	1.00	49.53	C
ATOM	6103	CZ	TYR	C	28	50.988	47.278	51.046	1.00	49.68	C
ATOM	6104	OH	TYR	C	28	49.798	47.957	50.901	1.00	51.36	O
ATOM	6105	CE2	TYR	C	28	52.152	47.813	50.515	1.00	49.06	C
ATOM	6106	CD2	TYR	C	28	53.354	47.126	50.659	1.00	44.61	C
ATOM	6107	C	TYR	C	28	54.808	43.797	49.412	1.00	33.90	C
ATOM	6108	O	TYR	C	28	55.757	44.335	48.843	1.00	31.76	O
ATOM	6109	N	TYR	C	29	53.783	43.238	48.764	1.00	31.72	N
ATOM	6110	CA	TYR	C	29	53.681	43.229	47.300	1.00	32.18	C
ATOM	6111	CB	TYR	C	29	52.600	42.245	46.834	1.00	31.72	C
ATOM	6112	CG	TYR	C	29	53.065	40.809	46.685	1.00	29.44	C
ATOM	6113	CD1	TYR	C	29	52.975	40.154	45.457	1.00	29.70	C
ATOM	6114	CE1	TYR	C	29	53.392	38.834	45.315	1.00	25.67	C
ATOM	6115	CZ	TYR	C	29	53.893	38.155	46.407	1.00	26.86	C
ATOM	6116	OH	TYR	C	29	54.295	36.841	46.271	1.00	28.91	O
ATOM	6117	CE2	TYR	C	29	53.987	38.780	47.640	1.00	30.13	C
ATOM	6118	CD2	TYR	C	29	53.567	40.098	47.774	1.00	30.07	C
ATOM	6119	C	TYR	C	29	53.401	44.613	46.703	1.00	35.73	C
ATOM	6120	O	TYR	C	29	53.648	44.846	45.516	1.00	36.83	O
ATOM	6121	N	GLY	C	30	52.895	45.526	47.528	1.00	36.66	N
ATOM	6122	CA	GLY	C	30	52.515	46.850	47.065	1.00	40.30	C
ATOM	6123	C	GLY	C	30	51.067	47.165	47.389	1.00	43.93	C
ATOM	6124	O	GLY	C	30	50.289	46.270	47.729	1.00	40.80	O
ATOM	6125	N	GLN	C	31	50.711	48.443	47.287	1.00	47.39	N
ATOM	6126	CA	GLN	C	31	49.357	48.910	47.580	1.00	48.51	C
ATOM	6127	CB	GLN	C	31	49.333	50.445	47.650	1.00	53.84	C
ATOM	6128	CG	GLN	C	31	47.954	51.089	47.511	1.00	60.02	C
ATOM	6129	CD	GLN	C	31	47.972	52.305	46.597	1.00	65.00	C
ATOM	6130	OE1	GLN	C	31	47.793	52.179	45.383	1.00	66.36	O
ATOM	6131	NE2	GLN	C	31	48.193	53.482	47.176	1.00	65.42	N
ATOM	6132	C	GLN	C	31	48.373	48.394	46.533	1.00	45.24	C
ATOM	6133	O	GLN	C	31	48.587	48.566	45.334	1.00	46.23	O
ATOM	6134	N	GLY	C	32	47.303	47.752	46.992	1.00	42.90	N
ATOM	6135	CA	GLY	C	32	46.267	47.269	46.097	1.00	40.42	C
ATOM	6136	C	GLY	C	32	46.495	45.863	45.563	1.00	40.39	C
ATOM	6137	O	GLY	C	32	45.621	45.303	44.897	1.00	38.98	O
ATOM	6138	N	HIS	C	33	47.663	45.290	45.844	1.00	37.69	N
ATOM	6139	CA	HIS	C	33	47.943	43.918	45.432	1.00	35.71	C
ATOM	6140	CB	HIS	C	33	49.448	43.662	45.317	1.00	34.11	C
ATOM	6141	CG	HIS	C	33	49.782	42.462	44.489	1.00	33.23	C
ATOM	6142	ND1	HIS	C	33	49.584	41.173	44.938	1.00	32.29	N
ATOM	6143	CE1	HIS	C	33	49.946	40.321	43.997	1.00	31.61	C
ATOM	6144	NE2	HIS	C	33	50.369	41.010	42.951	1.00	32.32	N
ATOM	6145	CD2	HIS	C	33	50.267	42.352	43.230	1.00	34.31	C
ATOM	6146	C	HIS	C	33	47.295	42.915	46.393	1.00	33.78	C
ATOM	6147	O	HIS	C	33	47.487	43.010	47.607	1.00	34.40	O
ATOM	6148	N	PRO	C	34	46.526	41.965	45.852	1.00	32.96	N
ATOM	6149	CA	PRO	C	34	45.781	40.997	46.679	1.00	31.81	C
ATOM	6150	CB	PRO	C	34	44.909	40.252	45.659	1.00	31.31	C
ATOM	6151	CG	PRO	C	34	45.591	40.440	44.354	1.00	31.72	C
ATOM	6152	CD	PRO	C	34	46.273	41.773	44.413	1.00	30.02	C
ATOM	6153	C	PRO	C	34	46.629	40.008	47.491	1.00	32.18	C
ATOM	6154	O	PRO	C	34	46.127	39.494	48.497	1.00	35.21	O
ATOM	6155	N	MET	C	35	47.869	39.743	47.083	1.00	30.65	N
ATOM	6156	CA	MET	C	35	48.726	38.832	47.846	1.00	32.37	C
ATOM	6157	CB	MET	C	35	49.851	38.257	46.975	1.00	34.98	C
ATOM	6158	CG	MET	C	35	50.748	37.231	47.676	1.00	36.00	C

ATOM	6159	SD	MET	C	35	49.880	35.830	48.432	1.00	39.50	S
ATOM	6160	CE	MET	C	35	49.830	34.670	47.053	1.00	37.79	C
ATOM	6161	C	MET	C	35	49.290	39.531	49.080	1.00	32.80	C
ATOM	6162	O	MET	C	35	50.061	40.486	48.968	1.00	32.06	O
ATOM	6163	N	LYS	C	36	48.898	39.045	50.254	1.00	33.47	N
ATOM	6164	CA	LYS	C	36	49.308	39.652	51.519	1.00	34.75	C
ATOM	6165	CB	LYS	C	36	48.092	40.243	52.237	1.00	38.77	C
ATOM	6166	CG	LYS	C	36	47.688	41.613	51.723	1.00	42.90	C
ATOM	6167	CD	LYS	C	36	46.183	41.738	51.597	1.00	46.54	C
ATOM	6168	CE	LYS	C	36	45.800	42.678	50.463	1.00	48.77	C
ATOM	6169	NZ	LYS	C	36	46.198	44.086	50.729	1.00	52.55	N
ATOM	6170	C	LYS	C	36	50.030	38.657	52.426	1.00	34.03	C
ATOM	6171	O	LYS	C	36	49.380	37.903	53.153	1.00	35.67	O
ATOM	6172	N	PRO	C	37	51.368	38.642	52.381	1.00	30.69	N
ATOM	6173	CA	PRO	C	37	52.161	37.737	53.228	1.00	29.96	C
ATOM	6174	CB	PRO	C	37	53.599	38.203	52.981	1.00	31.29	C
ATOM	6175	CG	PRO	C	37	53.559	38.765	51.593	1.00	30.69	C
ATOM	6176	CD	PRO	C	37	52.224	39.455	51.495	1.00	30.29	C
ATOM	6177	C	PRO	C	37	51.794	37.836	54.711	1.00	30.60	C
ATOM	6178	O	PRO	C	37	52.013	36.886	55.459	1.00	32.10	O
ATOM	6179	N	HIS	C	38	51.222	38.971	55.108	1.00	32.30	N
ATOM	6180	CA	HIS	C	38	50.700	39.179	56.458	1.00	36.07	C
ATOM	6181	CB	HIS	C	38	50.066	40.570	56.551	1.00	40.70	C
ATOM	6182	CG	HIS	C	38	49.728	40.992	57.946	1.00	48.92	C
ATOM	6183	ND1	HIS	C	38	48.483	41.469	58.297	1.00	52.14	N
ATOM	6184	CE1	HIS	C	38	48.474	41.763	59.585	1.00	54.24	C
ATOM	6185	NE2	HIS	C	38	49.669	41.494	60.083	1.00	53.62	N
ATOM	6186	CD2	HIS	C	38	50.471	41.010	59.078	1.00	51.31	C
ATOM	6187	C	HIS	C	38	49.694	38.102	56.900	1.00	33.63	C
ATOM	6188	O	HIS	C	38	49.542	37.845	58.092	1.00	35.64	O
ATOM	6189	N	ARG	C	39	49.023	37.465	55.940	1.00	35.23	N
ATOM	6190	CA	ARG	C	39	48.091	36.370	56.240	1.00	29.53	C
ATOM	6191	CB	ARG	C	39	47.313	35.959	54.982	1.00	31.89	C
ATOM	6192	CG	ARG	C	39	48.033	34.961	54.092	1.00	31.38	C
ATOM	6193	CD	ARG	C	39	47.812	35.165	52.607	1.00	33.64	C
ATOM	6194	NE	ARG	C	39	48.859	34.478	51.860	1.00	34.08	N
ATOM	6195	CZ	ARG	C	39	48.643	33.580	50.912	1.00	35.90	C
ATOM	6196	NH1	ARG	C	39	47.404	33.261	50.556	1.00	31.85	N
ATOM	6197	NH2	ARG	C	39	49.676	32.997	50.314	1.00	33.94	N
ATOM	6198	C	ARG	C	39	48.771	35.153	56.885	1.00	29.68	C
ATOM	6199	O	ARG	C	39	48.110	34.353	57.552	1.00	29.57	O
ATOM	6200	N	ILE	C	40	50.085	35.019	56.688	1.00	24.63	N
ATOM	6201	CA	ILE	C	40	50.852	33.944	57.320	1.00	27.45	C
ATOM	6202	CB	ILE	C	40	52.190	33.685	56.577	1.00	27.96	C
ATOM	6203	CG1	ILE	C	40	51.927	33.385	55.100	1.00	33.79	C
ATOM	6204	CD1	ILE	C	40	53.061	33.808	54.183	1.00	38.17	C
ATOM	6205	CG2	ILE	C	40	52.959	32.521	57.217	1.00	30.66	C
ATOM	6206	C	ILE	C	40	51.084	34.243	58.806	1.00	28.04	C
ATOM	6207	O	ILE	C	40	50.998	33.344	59.644	1.00	27.45	O
ATOM	6208	N	ARG	C	41	51.375	35.505	59.115	1.00	31.89	N
ATOM	6209	CA	ARG	C	41	51.511	35.965	60.500	1.00	31.28	C
ATOM	6210	CB	ARG	C	41	51.969	37.428	60.537	1.00	36.38	C
ATOM	6211	CG	ARG	C	41	52.289	37.952	61.941	1.00	41.97	C
ATOM	6212	CD	ARG	C	41	53.350	39.045	61.991	1.00	45.76	C
ATOM	6213	NE	ARG	C	41	53.010	40.189	61.146	1.00	50.70	N
ATOM	6214	CZ	ARG	C	41	53.898	41.022	60.612	1.00	53.22	C
ATOM	6215	NH1	ARG	C	41	55.198	40.852	60.828	1.00	53.30	N
ATOM	6216	NH2	ARG	C	41	53.487	42.032	59.857	1.00	54.14	N
ATOM	6217	C	ARG	C	41	50.191	35.792	61.262	1.00	29.80	C
ATOM	6218	O	ARG	C	41	50.177	35.280	62.386	1.00	28.88	O
ATOM	6219	N	MET	C	42	49.092	36.209	60.635	1.00	28.61	N
ATOM	6220	CA	MET	C	42	47.748	36.021	61.185	1.00	33.28	C
ATOM	6221	CB	MET	C	42	46.699	36.554	60.217	1.00	37.01	C

ATOM	6222	CG	MET	C	42	46.518	38.050	60.263	1.00	40.51	C
ATOM	6223	SD	MET	C	42	45.301	38.577	59.058	1.00	45.08	S
ATOM	6224	CE	MET	C	42	43.784	37.848	59.746	1.00	33.97	C
ATOM	6225	C	MET	C	42	47.443	34.559	61.492	1.00	33.95	C
ATOM	6226	O	MET	C	42	46.899	34.243	62.556	1.00	33.67	O
ATOM	6227	N	THR	C	43	47.787	33.676	60.552	1.00	27.78	N
ATOM	6228	CA	THR	C	43	47.608	32.237	60.730	1.00	27.55	C
ATOM	6229	CB	THR	C	43	48.037	31.465	59.450	1.00	27.61	C
ATOM	6230	OG1	THR	C	43	47.202	31.850	58.355	1.00	25.98	O
ATOM	6231	CG2	THR	C	43	47.752	29.983	59.600	1.00	27.27	C
ATOM	6232	C	THR	C	43	48.404	31.754	61.929	1.00	27.77	C
ATOM	6233	O	THR	C	43	47.856	31.096	62.823	1.00	29.09	O
ATOM	6234	N	HIS	C	44	49.693	32.101	61.952	1.00	27.01	N
ATOM	6235	CA	HIS	C	44	50.592	31.696	63.025	1.00	27.24	C
ATOM	6236	CB	HIS	C	44	52.009	32.212	62.761	1.00	32.41	C
ATOM	6237	CG	HIS	C	44	53.033	31.682	63.716	1.00	36.88	C
ATOM	6238	ND1	HIS	C	44	53.702	32.486	64.613	1.00	40.76	N
ATOM	6239	CE1	HIS	C	44	54.539	31.750	65.322	1.00	39.60	C
ATOM	6240	NE2	HIS	C	44	54.433	30.496	64.921	1.00	41.04	N
ATOM	6241	CD2	HIS	C	44	53.496	30.426	63.919	1.00	38.05	C
ATOM	6242	C	HIS	C	44	50.103	32.177	64.396	1.00	30.21	C
ATOM	6243	O	HIS	C	44	50.147	31.426	65.379	1.00	28.20	O
ATOM	6244	N	ASN	C	45	49.638	33.423	64.447	1.00	30.01	N
ATOM	6245	CA	ASN	C	45	49.130	34.017	65.680	1.00	32.74	C
ATOM	6246	CB	ASN	C	45	48.884	35.515	65.477	1.00	34.57	C
ATOM	6247	CG	ASN	C	45	48.650	36.258	66.784	1.00	38.90	C
ATOM	6248	OD1	ASN	C	45	47.517	36.599	67.117	1.00	37.21	O
ATOM	6249	ND2	ASN	C	45	49.725	36.524	67.520	1.00	35.99	N
ATOM	6250	C	ASN	C	45	47.866	33.310	66.186	1.00	31.00	C
ATOM	6251	O	ASN	C	45	47.722	33.071	67.387	1.00	32.09	O
ATOM	6252	N	LEU	C	46	46.966	32.964	65.264	1.00	29.96	N
ATOM	6253	CA	LEU	C	46	45.756	32.214	65.603	1.00	33.42	C
ATOM	6254	CB	LEU	C	46	44.837	32.076	64.386	1.00	35.40	C
ATOM	6255	CG	LEU	C	46	43.353	32.436	64.517	1.00	37.13	C
ATOM	6256	CD1	LEU	C	46	42.526	31.716	63.453	1.00	31.44	C
ATOM	6257	CD2	LEU	C	46	42.798	32.166	65.926	1.00	36.23	C
ATOM	6258	C	LEU	C	46	46.095	30.835	66.161	1.00	34.66	C
ATOM	6259	O	LEU	C	46	45.553	30.422	67.193	1.00	33.06	O
ATOM	6260	N	LEU	C	47	47.006	30.144	65.478	1.00	35.52	N
ATOM	6261	CA	LEU	C	47	47.470	28.817	65.872	1.00	38.81	C
ATOM	6262	CB	LEU	C	47	48.490	28.296	64.857	1.00	42.47	C
ATOM	6263	CG	LEU	C	47	47.908	27.657	63.604	1.00	44.77	C
ATOM	6264	CD1	LEU	C	47	48.989	27.467	62.565	1.00	42.82	C
ATOM	6265	CD2	LEU	C	47	47.276	26.331	63.968	1.00	48.75	C
ATOM	6266	C	LEU	C	47	48.093	28.786	67.260	1.00	37.66	C
ATOM	6267	O	LEU	C	47	47.800	27.891	68.055	1.00	38.89	O
ATOM	6268	N	LEU	C	48	48.959	29.759	67.539	1.00	37.85	N
ATOM	6269	CA	LEU	C	48	49.627	29.860	68.833	1.00	37.36	C
ATOM	6270	CB	LEU	C	48	50.625	31.026	68.843	1.00	40.20	C
ATOM	6271	CG	LEU	C	48	51.915	30.960	68.016	1.00	42.05	C
ATOM	6272	CD1	LEU	C	48	52.762	32.205	68.273	1.00	42.21	C
ATOM	6273	CD2	LEU	C	48	52.725	29.690	68.277	1.00	41.54	C
ATOM	6274	C	LEU	C	48	48.624	30.037	69.969	1.00	36.83	C
ATOM	6275	O	LEU	C	48	48.761	29.425	71.025	1.00	40.04	O
ATOM	6276	N	ASN	C	49	47.613	30.870	69.734	1.00	36.46	N
ATOM	6277	CA	ASN	C	49	46.612	31.184	70.748	1.00	36.10	C
ATOM	6278	CB	ASN	C	49	45.930	32.515	70.424	1.00	34.15	C
ATOM	6279	CG	ASN	C	49	46.802	33.706	70.785	1.00	35.42	C
ATOM	6280	OD1	ASN	C	49	47.107	33.927	71.955	1.00	34.95	O
ATOM	6281	ND2	ASN	C	49	47.231	34.459	69.779	1.00	29.62	N
ATOM	6282	C	ASN	C	49	45.598	30.069	70.985	1.00	35.25	C
ATOM	6283	O	ASN	C	49	44.914	30.041	72.011	1.00	34.47	O
ATOM	6284	N	TYR	C	50	45.518	29.140	70.037	1.00	33.96	N

ATOM	6285	CA	TYR	C	50	44.760	27.911	70.228	1.00	35.45	C
ATOM	6286	CB	TYR	C	50	44.368	27.314	68.878	1.00	33.16	C
ATOM	6287	CG	TYR	C	50	42.967	27.641	68.411	1.00	32.45	C
ATOM	6288	CD1	TYR	C	50	41.847	27.106	69.054	1.00	30.20	C
ATOM	6289	CE1	TYR	C	50	40.556	27.400	68.613	1.00	27.65	C
ATOM	6290	CZ	TYR	C	50	40.381	28.225	67.516	1.00	26.28	C
ATOM	6291	OH	TYR	C	50	39.117	28.526	67.069	1.00	24.91	O
ATOM	6292	CE2	TYR	C	50	41.479	28.764	66.860	1.00	26.27	C
ATOM	6293	CD2	TYR	C	50	42.760	28.470	67.310	1.00	30.65	C
ATOM	6294	C	TYR	C	50	45.602	26.909	71.018	1.00	38.03	C
ATOM	6295	O	TYR	C	50	45.103	25.866	71.444	1.00	40.86	O
ATOM	6296	N	GLY	C	51	46.883	27.233	71.199	1.00	37.84	N
ATOM	6297	CA	GLY	C	51	47.812	26.396	71.940	1.00	40.86	C
ATOM	6298	C	GLY	C	51	48.367	25.210	71.169	1.00	41.95	C
ATOM	6299	O	GLY	C	51	48.886	24.265	71.769	1.00	43.30	O
ATOM	6300	N	LEU	C	52	48.279	25.261	69.843	1.00	43.65	N
ATOM	6301	CA	LEU	C	52	48.706	24.137	69.006	1.00	45.02	C
ATOM	6302	CB	LEU	C	52	48.042	24.196	67.621	1.00	44.84	C
ATOM	6303	CG	LEU	C	52	46.507	24.095	67.628	1.00	44.99	C
ATOM	6304	CD1	LEU	C	52	45.936	24.223	66.233	1.00	45.90	C
ATOM	6305	CD2	LEU	C	52	46.015	22.802	68.282	1.00	44.40	C
ATOM	6306	C	LEU	C	52	50.230	23.985	68.913	1.00	44.79	C
ATOM	6307	O	LEU	C	52	50.733	22.949	68.470	1.00	43.40	O
ATOM	6308	N	TYR	C	53	50.952	25.012	69.360	1.00	45.25	N
ATOM	6309	CA	TYR	C	53	52.411	24.966	69.458	1.00	48.37	C
ATOM	6310	CB	TYR	C	53	52.972	26.351	69.797	1.00	50.70	C
ATOM	6311	CG	TYR	C	53	52.647	26.846	71.191	1.00	53.81	C
ATOM	6312	CD1	TYR	C	53	53.552	26.677	72.240	1.00	56.29	C
ATOM	6313	CE1	TYR	C	53	53.261	27.133	73.524	1.00	57.54	C
ATOM	6314	CZ	TYR	C	53	52.054	27.771	73.766	1.00	57.62	C
ATOM	6315	OH	TYR	C	53	51.761	28.224	75.033	1.00	58.97	O
ATOM	6316	CE2	TYR	C	53	51.140	27.953	72.740	1.00	56.80	C
ATOM	6317	CD2	TYR	C	53	51.442	27.494	71.459	1.00	54.89	C
ATOM	6318	C	TYR	C	53	52.885	23.938	70.484	1.00	49.81	C
ATOM	6319	O	TYR	C	53	54.018	23.455	70.417	1.00	50.68	O
ATOM	6320	N	ARG	C	54	52.010	23.609	71.430	1.00	51.26	N
ATOM	6321	CA	ARG	C	54	52.317	22.628	72.464	1.00	54.81	C
ATOM	6322	CB	ARG	C	54	51.327	22.747	73.630	1.00	57.60	C
ATOM	6323	CG	ARG	C	54	51.684	23.827	74.646	1.00	60.35	C
ATOM	6324	CD	ARG	C	54	50.942	23.711	75.972	1.00	62.60	C
ATOM	6325	NE	ARG	C	54	49.543	24.122	75.851	1.00	65.21	N
ATOM	6326	CZ	ARG	C	54	48.543	23.636	76.580	1.00	67.23	C
ATOM	6327	NH1	ARG	C	54	48.767	22.711	77.507	1.00	66.60	N
ATOM	6328	NH2	ARG	C	54	47.308	24.081	76.384	1.00	67.60	N
ATOM	6329	C	ARG	C	54	52.322	21.201	71.916	1.00	54.61	C
ATOM	6330	O	ARG	C	54	52.825	20.287	72.572	1.00	56.11	O
ATOM	6331	N	LYS	C	55	51.779	21.022	70.711	1.00	52.10	N
ATOM	6332	CA	LYS	C	55	51.614	19.694	70.117	1.00	50.68	C
ATOM	6333	CB	LYS	C	55	50.138	19.446	69.777	1.00	54.70	C
ATOM	6334	CG	LYS	C	55	49.213	19.410	70.995	1.00	58.26	C
ATOM	6335	CD	LYS	C	55	47.750	19.276	70.590	1.00	61.32	C
ATOM	6336	CE	LYS	C	55	47.260	17.840	70.750	1.00	65.02	C
ATOM	6337	NZ	LYS	C	55	45.782	17.761	70.948	1.00	66.27	N
ATOM	6338	C	LYS	C	55	52.497	19.438	68.886	1.00	49.38	C
ATOM	6339	O	LYS	C	55	52.467	18.345	68.311	1.00	46.69	O
ATOM	6340	N	MET	C	56	53.279	20.439	68.486	1.00	46.45	N
ATOM	6341	CA	MET	C	56	54.156	20.306	67.322	1.00	44.45	C
ATOM	6342	CB	MET	C	56	53.441	20.763	66.040	1.00	44.89	C
ATOM	6343	CG	MET	C	56	53.118	22.246	65.973	1.00	45.73	C
ATOM	6344	SD	MET	C	56	52.048	22.667	64.581	1.00	47.72	S
ATOM	6345	CE	MET	C	56	51.731	24.393	64.947	1.00	47.60	C
ATOM	6346	C	MET	C	56	55.489	21.033	67.494	1.00	43.77	C
ATOM	6347	O	MET	C	56	55.589	22.001	68.253	1.00	42.83	O

ATOM	6348	N	GLU	C	57	56.509	20.553	66.787	1.00	41.61	N
ATOM	6349	CA	GLU	C	57	57.812	21.202	66.785	1.00	43.07	C
ATOM	6350	CB	GLU	C	57	58.921	20.188	66.498	1.00	46.03	C
ATOM	6351	CG	GLU	C	57	59.729	19.806	67.727	1.00	53.50	C
ATOM	6352	CD	GLU	C	57	60.089	18.333	67.754	1.00	57.45	C
ATOM	6353	OE1	GLU	C	57	61.157	17.973	67.214	1.00	57.77	O
ATOM	6354	OE2	GLU	C	57	59.306	17.537	68.317	1.00	60.20	O
ATOM	6355	C	GLU	C	57	57.830	22.330	65.758	1.00	43.35	C
ATOM	6356	O	GLU	C	57	57.587	22.103	64.569	1.00	43.55	O
ATOM	6357	N	ILE	C	58	58.103	23.544	66.229	1.00	39.14	N
ATOM	6358	CA	ILE	C	58	58.148	24.719	65.365	1.00	41.47	C
ATOM	6359	CB	ILE	C	58	57.393	25.912	66.013	1.00	43.70	C
ATOM	6360	CG1	ILE	C	58	55.884	25.637	66.047	1.00	43.45	C
ATOM	6361	CD1	ILE	C	58	55.084	26.647	66.849	1.00	42.96	C
ATOM	6362	CG2	ILE	C	58	57.693	27.230	65.273	1.00	44.09	C
ATOM	6363	C	ILE	C	58	59.599	25.078	65.051	1.00	44.28	C
ATOM	6364	O	ILE	C	58	60.413	25.264	65.963	1.00	41.74	O
ATOM	6365	N	TYR	C	59	59.912	25.162	63.758	1.00	40.49	N
ATOM	6366	CA	TYR	C	59	61.258	25.498	63.301	1.00	42.50	C
ATOM	6367	CB	TYR	C	59	61.832	24.365	62.453	1.00	44.89	C
ATOM	6368	CG	TYR	C	59	62.117	23.096	63.216	1.00	49.36	C
ATOM	6369	CD1	TYR	C	59	63.307	22.940	63.931	1.00	51.41	C
ATOM	6370	CE1	TYR	C	59	63.574	21.769	64.632	1.00	52.77	C
ATOM	6371	CZ	TYR	C	59	62.647	20.740	64.619	1.00	53.53	C
ATOM	6372	OH	TYR	C	59	62.907	19.578	65.308	1.00	54.32	O
ATOM	6373	CE2	TYR	C	59	61.460	20.871	63.917	1.00	52.44	C
ATOM	6374	CD2	TYR	C	59	61.203	22.044	63.219	1.00	51.40	C
ATOM	6375	C	TYR	C	59	61.285	26.783	62.489	1.00	41.32	C
ATOM	6376	O	TYR	C	59	60.362	27.063	61.727	1.00	39.22	O
ATOM	6377	N	ARG	C	60	62.350	27.560	62.662	1.00	44.04	N
ATOM	6378	CA	ARG	C	60	62.643	28.679	61.773	1.00	47.42	C
ATOM	6379	CB	ARG	C	60	63.589	29.679	62.448	1.00	51.21	C
ATOM	6380	CG	ARG	C	60	63.520	31.098	61.900	1.00	55.96	C
ATOM	6381	CD	ARG	C	60	64.128	32.151	62.825	1.00	60.59	C
ATOM	6382	NE	ARG	C	60	63.878	33.518	62.360	1.00	66.91	N
ATOM	6383	CZ	ARG	C	60	63.128	34.417	63.001	1.00	70.06	C
ATOM	6384	NH1	ARG	C	60	62.535	34.111	64.149	1.00	70.65	N
ATOM	6385	NH2	ARG	C	60	62.966	35.633	62.491	1.00	70.49	N
ATOM	6386	C	ARG	C	60	63.282	28.090	60.515	1.00	46.20	C
ATOM	6387	O	ARG	C	60	64.248	27.328	60.612	1.00	44.53	O
ATOM	6388	N	PRO	C	61	62.736	28.405	59.342	1.00	44.69	N
ATOM	6389	CA	PRO	C	61	63.274	27.860	58.095	1.00	45.23	C
ATOM	6390	CB	PRO	C	61	62.202	28.227	57.059	1.00	44.63	C
ATOM	6391	CG	PRO	C	61	61.526	29.427	57.611	1.00	46.26	C
ATOM	6392	CD	PRO	C	61	61.581	29.289	59.102	1.00	45.35	C
ATOM	6393	C	PRO	C	61	64.607	28.510	57.746	1.00	41.77	C
ATOM	6394	O	PRO	C	61	64.785	29.709	57.967	1.00	40.22	O
ATOM	6395	N	HIS	C	62	65.535	27.713	57.232	1.00	44.44	N
ATOM	6396	CA	HIS	C	62	66.747	28.246	56.629	1.00	46.90	C
ATOM	6397	CB	HIS	C	62	67.725	27.110	56.293	1.00	52.30	C
ATOM	6398	CG	HIS	C	62	67.319	26.287	55.107	1.00	55.86	C
ATOM	6399	ND1	HIS	C	62	66.285	25.376	55.150	1.00	57.69	N
ATOM	6400	CE1	HIS	C	62	66.155	24.802	53.967	1.00	56.50	C
ATOM	6401	NE2	HIS	C	62	67.066	25.309	53.157	1.00	57.96	N
ATOM	6402	CD2	HIS	C	62	67.808	26.239	53.845	1.00	57.75	C
ATOM	6403	C	HIS	C	62	66.366	29.017	55.365	1.00	43.92	C
ATOM	6404	O	HIS	C	62	65.308	28.778	54.776	1.00	43.41	O
ATOM	6405	N	LYS	C	63	67.214	29.958	54.969	1.00	38.18	N
ATOM	6406	CA	LYS	C	63	67.066	30.621	53.681	1.00	36.63	C
ATOM	6407	CB	LYS	C	63	67.856	31.927	53.659	1.00	36.70	C
ATOM	6408	CG	LYS	C	63	67.122	33.125	54.213	1.00	41.96	C
ATOM	6409	CD	LYS	C	63	67.910	34.402	53.941	1.00	45.82	C
ATOM	6410	CE	LYS	C	63	67.533	35.507	54.916	1.00	50.81	C

ATOM	6411	NZ	LYS	C	63	66.315	36.252	54.479	1.00	55.25	N
ATOM	6412	C	LYS	C	63	67.602	29.687	52.604	1.00	33.91	C
ATOM	6413	O	LYS	C	63	68.745	29.225	52.692	1.00	33.93	O
ATOM	6414	N	ALA	C	64	66.777	29.393	51.601	1.00	28.88	N
ATOM	6415	CA	ALA	C	64	67.219	28.602	50.455	1.00	26.59	C
ATOM	6416	CB	ALA	C	64	66.030	28.225	49.589	1.00	28.08	C
ATOM	6417	C	ALA	C	64	68.218	29.434	49.658	1.00	25.42	C
ATOM	6418	O	ALA	C	64	67.982	30.613	49.419	1.00	26.09	O
ATOM	6419	N	THR	C	65	69.340	28.840	49.260	1.00	23.36	N
ATOM	6420	CA	THR	C	65	70.319	29.586	48.472	1.00	23.80	C
ATOM	6421	CB	THR	C	65	71.709	28.917	48.495	1.00	25.41	C
ATOM	6422	OG1	THR	C	65	71.609	27.587	47.969	1.00	28.02	O
ATOM	6423	CG2	THR	C	65	72.195	28.716	49.930	1.00	30.91	C
ATOM	6424	C	THR	C	65	69.846	29.731	47.031	1.00	24.23	C
ATOM	6425	O	THR	C	65	69.023	28.938	46.559	1.00	21.40	O
ATOM	6426	N	ALA	C	66	70.378	30.742	46.347	1.00	19.59	N
ATOM	6427	CA	ALA	C	66	70.196	30.908	44.911	1.00	22.36	C
ATOM	6428	CB	ALA	C	66	70.956	32.128	44.421	1.00	23.82	C
ATOM	6429	C	ALA	C	66	70.648	29.661	44.146	1.00	23.33	C
ATOM	6430	O	ALA	C	66	70.014	29.275	43.170	1.00	21.16	O
ATOM	6431	N	GLU	C	67	71.748	29.049	44.591	1.00	23.37	N
ATOM	6432	CA	GLU	C	67	72.266	27.817	43.988	1.00	27.01	C
ATOM	6433	CB	GLU	C	67	73.550	27.367	44.695	1.00	31.52	C
ATOM	6434	CG	GLU	C	67	74.790	28.169	44.327	1.00	32.63	C
ATOM	6435	CD	GLU	C	67	74.897	29.491	45.076	1.00	40.00	C
ATOM	6436	OE1	GLU	C	67	75.604	30.392	44.578	1.00	42.09	O
ATOM	6437	OE2	GLU	C	67	74.279	29.640	46.155	1.00	40.86	O
ATOM	6438	C	GLU	C	67	71.229	26.695	44.049	1.00	25.65	C
ATOM	6439	O	GLU	C	67	70.984	26.016	43.049	1.00	23.96	O
ATOM	6440	N	GLU	C	68	70.631	26.513	45.225	1.00	20.71	N
ATOM	6441	CA	GLU	C	68	69.571	25.523	45.426	1.00	24.52	C
ATOM	6442	CB	GLU	C	68	69.142	25.488	46.901	1.00	30.41	C
ATOM	6443	CG	GLU	C	68	67.685	25.115	47.173	1.00	40.89	C
ATOM	6444	CD	GLU	C	68	67.430	23.615	47.170	1.00	48.71	C
ATOM	6445	OE1	GLU	C	68	68.104	22.885	47.932	1.00	51.78	O
ATOM	6446	OE2	GLU	C	68	66.541	23.162	46.411	1.00	48.39	O
ATOM	6447	C	GLU	C	68	68.380	25.787	44.495	1.00	21.05	C
ATOM	6448	O	GLU	C	68	67.797	24.855	43.948	1.00	19.99	O
ATOM	6449	N	MET	C	69	68.032	27.057	44.301	1.00	20.34	N
ATOM	6450	CA	MET	C	69	66.933	27.406	43.400	1.00	21.76	C
ATOM	6451	CB	MET	C	69	66.618	28.897	43.477	1.00	19.55	C
ATOM	6452	CG	MET	C	69	65.978	29.302	44.790	1.00	22.07	C
ATOM	6453	SD	MET	C	69	65.871	31.083	44.874	1.00	23.24	S
ATOM	6454	CE	MET	C	69	65.345	31.262	46.535	1.00	22.96	C
ATOM	6455	C	MET	C	69	67.210	27.006	41.953	1.00	21.11	C
ATOM	6456	O	MET	C	69	66.269	26.707	41.211	1.00	20.14	O
ATOM	6457	N	THR	C	70	68.489	26.992	41.563	1.00	18.33	N
ATOM	6458	CA	THR	C	70	68.866	26.631	40.189	1.00	17.88	C
ATOM	6459	CB	THR	C	70	70.219	27.269	39.728	1.00	21.39	C
ATOM	6460	OG1	THR	C	70	71.298	26.812	40.555	1.00	22.33	O
ATOM	6461	CG2	THR	C	70	70.202	28.774	39.908	1.00	19.52	C
ATOM	6462	C	THR	C	70	68.850	25.125	39.935	1.00	21.28	C
ATOM	6463	O	THR	C	70	69.142	24.679	38.825	1.00	23.13	O
ATOM	6464	N	LYS	C	71	68.495	24.348	40.956	1.00	20.33	N
ATOM	6465	CA	LYS	C	71	68.206	22.930	40.763	1.00	21.20	C
ATOM	6466	CB	LYS	C	71	67.866	22.250	42.089	1.00	22.84	C
ATOM	6467	CG	LYS	C	71	69.078	21.998	42.991	1.00	27.11	C
ATOM	6468	CD	LYS	C	71	68.681	21.190	44.218	1.00	29.87	C
ATOM	6469	CE	LYS	C	71	69.835	21.067	45.211	1.00	34.62	C
ATOM	6470	NZ	LYS	C	71	69.437	20.284	46.423	1.00	38.38	N
ATOM	6471	C	LYS	C	71	67.049	22.800	39.786	1.00	21.09	C
ATOM	6472	O	LYS	C	71	66.932	21.808	39.065	1.00	21.12	O
ATOM	6473	N	TYR	C	72	66.200	23.821	39.756	1.00	17.81	N

ATOM	6474	CA	TYR	C	72	65.091	23.847	38.820	1.00	17.96	C
ATOM	6475	CB	TYR	C	72	63.750	23.759	39.558	1.00	17.45	C
ATOM	6476	CG	TYR	C	72	62.593	23.739	38.594	1.00	19.83	C
ATOM	6477	CD1	TYR	C	72	61.664	24.779	38.557	1.00	21.84	C
ATOM	6478	CE1	TYR	C	72	60.611	24.757	37.642	1.00	23.48	C
ATOM	6479	CZ	TYR	C	72	60.506	23.691	36.758	1.00	24.12	C
ATOM	6480	OH	TYR	C	72	59.487	23.626	35.834	1.00	29.61	O
ATOM	6481	CE2	TYR	C	72	61.428	22.665	36.781	1.00	25.40	C
ATOM	6482	CD2	TYR	C	72	62.464	22.699	37.682	1.00	19.37	C
ATOM	6483	C	TYR	C	72	65.112	25.072	37.908	1.00	19.91	C
ATOM	6484	O	TYR	C	72	65.071	24.945	36.684	1.00	19.47	O
ATOM	6485	N	HIS	C	73	65.175	26.257	38.509	1.00	18.51	N
ATOM	6486	CA	HIS	C	73	65.073	27.497	37.751	1.00	17.37	C
ATOM	6487	CB	HIS	C	73	64.720	28.650	38.689	1.00	18.17	C
ATOM	6488	CG	HIS	C	73	63.358	28.529	39.292	1.00	17.68	C
ATOM	6489	ND1	HIS	C	73	62.212	28.885	38.617	1.00	16.57	N
ATOM	6490	CE1	HIS	C	73	61.163	28.668	39.391	1.00	18.20	C
ATOM	6491	NE2	HIS	C	73	61.589	28.180	40.542	1.00	18.06	N
ATOM	6492	CD2	HIS	C	73	62.960	28.086	40.507	1.00	15.45	C
ATOM	6493	C	HIS	C	73	66.356	27.813	37.002	1.00	21.42	C
ATOM	6494	O	HIS	C	73	67.436	27.392	37.411	1.00	21.09	O
ATOM	6495	N	SER	C	74	66.240	28.554	35.904	1.00	19.64	N
ATOM	6496	CA	SER	C	74	67.435	28.946	35.155	1.00	22.05	C
ATOM	6497	CB	SER	C	74	67.084	29.465	33.758	1.00	25.78	C
ATOM	6498	OG	SER	C	74	66.548	30.771	33.799	1.00	26.55	O
ATOM	6499	C	SER	C	74	68.267	29.965	35.930	1.00	22.28	C
ATOM	6500	O	SER	C	74	67.726	30.779	36.689	1.00	21.78	O
ATOM	6501	N	ASP	C	75	69.586	29.900	35.748	1.00	19.81	N
ATOM	6502	CA	ASP	C	75	70.513	30.835	36.396	1.00	20.71	C
ATOM	6503	CB	ASP	C	75	71.953	30.547	35.979	1.00	22.27	C
ATOM	6504	CG	ASP	C	75	72.366	29.150	36.300	1.00	24.90	C
ATOM	6505	OD1	ASP	C	75	73.224	28.971	37.195	1.00	23.94	O
ATOM	6506	OD2	ASP	C	75	71.872	28.170	35.708	1.00	27.54	O
ATOM	6507	C	ASP	C	75	70.202	32.289	36.074	1.00	21.42	C
ATOM	6508	O	ASP	C	75	70.279	33.144	36.957	1.00	21.96	O
ATOM	6509	N	GLU	C	76	69.884	32.552	34.806	1.00	20.51	N
ATOM	6510	CA	GLU	C	76	69.586	33.904	34.325	1.00	23.83	C
ATOM	6511	CB	GLU	C	76	69.357	33.893	32.806	1.00	31.92	C
ATOM	6512	CG	GLU	C	76	70.357	33.045	32.012	1.00	40.28	C
ATOM	6513	CD	GLU	C	76	69.887	31.604	31.789	1.00	45.03	C
ATOM	6514	OE1	GLU	C	76	69.107	31.369	30.835	1.00	48.62	O
ATOM	6515	OE2	GLU	C	76	70.299	30.699	32.561	1.00	37.28	O
ATOM	6516	C	GLU	C	76	68.369	34.487	35.058	1.00	22.57	C
ATOM	6517	O	GLU	C	76	68.358	35.665	35.435	1.00	21.69	O
ATOM	6518	N	TYR	C	77	67.353	33.650	35.263	1.00	19.40	N
ATOM	6519	CA	TYR	C	77	66.144	34.065	35.969	1.00	20.14	C
ATOM	6520	CB	TYR	C	77	65.028	33.023	35.784	1.00	18.77	C
ATOM	6521	CG	TYR	C	77	63.773	33.315	36.579	1.00	19.44	C
ATOM	6522	CD1	TYR	C	77	63.127	34.550	36.472	1.00	21.82	C
ATOM	6523	CE1	TYR	C	77	61.981	34.832	37.211	1.00	22.10	C
ATOM	6524	CZ	TYR	C	77	61.465	33.866	38.065	1.00	22.25	C
ATOM	6525	OH	TYR	C	77	60.331	34.145	38.793	1.00	22.05	O
ATOM	6526	CE2	TYR	C	77	62.084	32.627	38.186	1.00	21.22	C
ATOM	6527	CD2	TYR	C	77	63.241	32.361	37.448	1.00	18.33	C
ATOM	6528	C	TYR	C	77	66.427	34.325	37.451	1.00	19.84	C
ATOM	6529	O	TYR	C	77	65.987	35.335	38.004	1.00	21.50	O
ATOM	6530	N	ILE	C	78	67.177	33.425	38.091	1.00	17.40	N
ATOM	6531	CA	ILE	C	78	67.494	33.582	39.508	1.00	18.39	C
ATOM	6532	CB	ILE	C	78	68.080	32.265	40.088	1.00	17.35	C
ATOM	6533	CG1	ILE	C	78	67.012	31.157	40.098	1.00	20.32	C
ATOM	6534	CD1	ILE	C	78	65.675	31.547	40.768	1.00	16.87	C
ATOM	6535	CG2	ILE	C	78	68.657	32.479	41.482	1.00	19.10	C
ATOM	6536	C	ILE	C	78	68.426	34.778	39.742	1.00	19.09	C

ATOM	6537	O	ILE	C	78	68.282	35.495	40.733	1.00	21.49	O
ATOM	6538	N	LYS	C	79	69.364	34.987	38.819	1.00	24.95	N
ATOM	6539	CA	LYS	C	79	70.268	36.145	38.856	1.00	24.72	C
ATOM	6540	CB	LYS	C	79	71.270	36.063	37.695	1.00	29.49	C
ATOM	6541	CG	LYS	C	79	72.123	37.312	37.460	1.00	38.40	C
ATOM	6542	CD	LYS	C	79	73.539	36.955	36.992	1.00	43.36	C
ATOM	6543	CE	LYS	C	79	73.547	36.355	35.585	1.00	45.63	C
ATOM	6544	NZ	LYS	C	79	73.681	34.870	35.616	1.00	48.38	N
ATOM	6545	C	LYS	C	79	69.472	37.450	38.793	1.00	23.37	C
ATOM	6546	O	LYS	C	79	69.745	38.398	39.544	1.00	23.10	O
ATOM	6547	N	PHE	C	80	68.487	37.480	37.900	1.00	22.63	N
ATOM	6548	CA	PHE	C	80	67.554	38.606	37.785	1.00	24.07	C
ATOM	6549	CB	PHE	C	80	66.614	38.386	36.591	1.00	24.48	C
ATOM	6550	CG	PHE	C	80	65.436	39.327	36.546	1.00	27.52	C
ATOM	6551	CD1	PHE	C	80	64.202	38.946	37.071	1.00	26.57	C
ATOM	6552	CE1	PHE	C	80	63.107	39.812	37.028	1.00	29.04	C
ATOM	6553	CZ	PHE	C	80	63.235	41.071	36.439	1.00	29.31	C
ATOM	6554	CE2	PHE	C	80	64.457	41.459	35.901	1.00	27.52	C
ATOM	6555	CD2	PHE	C	80	65.553	40.585	35.956	1.00	27.71	C
ATOM	6556	C	PHE	C	80	66.764	38.819	39.079	1.00	23.77	C
ATOM	6557	O	PHE	C	80	66.677	39.948	39.573	1.00	25.74	O
ATOM	6558	N	LEU	C	81	66.196	37.745	39.635	1.00	20.26	N
ATOM	6559	CA	LEU	C	81	65.402	37.855	40.868	1.00	21.83	C
ATOM	6560	CB	LEU	C	81	64.806	36.504	41.290	1.00	22.09	C
ATOM	6561	CG	LEU	C	81	63.611	35.934	40.523	1.00	22.29	C
ATOM	6562	CD1	LEU	C	81	63.153	34.634	41.194	1.00	19.50	C
ATOM	6563	CD2	LEU	C	81	62.451	36.932	40.422	1.00	22.44	C
ATOM	6564	C	LEU	C	81	66.221	38.420	42.023	1.00	23.90	C
ATOM	6565	O	LEU	C	81	65.703	39.175	42.851	1.00	22.21	O
ATOM	6566	N	ARG	C	82	67.499	38.052	42.078	1.00	22.02	N
ATOM	6567	CA	ARG	C	82	68.365	38.515	43.156	1.00	28.38	C
ATOM	6568	CB	ARG	C	82	69.488	37.497	43.427	1.00	32.85	C
ATOM	6569	CG	ARG	C	82	70.806	37.769	42.737	1.00	41.43	C
ATOM	6570	CD	ARG	C	82	72.018	37.491	43.615	1.00	47.90	C
ATOM	6571	NE	ARG	C	82	72.472	36.111	43.478	1.00	47.36	N
ATOM	6572	CZ	ARG	C	82	73.324	35.505	44.300	1.00	47.23	C
ATOM	6573	NH1	ARG	C	82	73.670	34.245	44.074	1.00	44.83	N
ATOM	6574	NH2	ARG	C	82	73.832	36.146	45.345	1.00	45.37	N
ATOM	6575	C	ARG	C	82	68.900	39.933	42.911	1.00	26.12	C
ATOM	6576	O	ARG	C	82	69.382	40.582	43.839	1.00	30.78	O
ATOM	6577	N	SER	C	83	68.775	40.411	41.674	1.00	25.30	N
ATOM	6578	CA	SER	C	83	69.332	41.707	41.262	1.00	29.28	C
ATOM	6579	CB	SER	C	83	70.016	41.584	39.896	1.00	27.16	C
ATOM	6580	OG	SER	C	83	71.103	40.686	39.960	1.00	34.55	O
ATOM	6581	C	SER	C	83	68.299	42.823	41.175	1.00	30.34	C
ATOM	6582	O	SER	C	83	68.629	43.993	41.382	1.00	29.97	O
ATOM	6583	N	ILE	C	84	67.059	42.464	40.850	1.00	30.87	N
ATOM	6584	CA	ILE	C	84	66.016	43.451	40.580	1.00	30.79	C
ATOM	6585	CB	ILE	C	84	64.834	42.816	39.778	1.00	30.97	C
ATOM	6586	CG1	ILE	C	84	63.932	43.901	39.175	1.00	31.67	C
ATOM	6587	CD1	ILE	C	84	64.450	44.502	37.898	1.00	30.59	C
ATOM	6588	CG2	ILE	C	84	64.025	41.852	40.641	1.00	32.10	C
ATOM	6589	C	ILE	C	84	65.538	44.185	41.835	1.00	31.63	C
ATOM	6590	O	ILE	C	84	65.293	43.574	42.876	1.00	28.09	O
ATOM	6591	N	ARG	C	85	65.425	45.508	41.714	1.00	32.91	N
ATOM	6592	CA	ARG	C	85	65.001	46.376	42.808	1.00	35.61	C
ATOM	6593	CB	ARG	C	85	66.214	47.082	43.420	1.00	39.52	C
ATOM	6594	CG	ARG	C	85	67.101	46.195	44.279	1.00	46.31	C
ATOM	6595	CD	ARG	C	85	68.398	46.854	44.705	1.00	54.25	C
ATOM	6596	NE	ARG	C	85	69.199	47.299	43.561	1.00	61.12	N
ATOM	6597	CZ	ARG	C	85	69.646	48.542	43.383	1.00	64.18	C
ATOM	6598	NH1	ARG	C	85	70.367	48.839	42.308	1.00	64.22	N
ATOM	6599	NH2	ARG	C	85	69.383	49.489	44.277	1.00	65.15	N

ATOM	6600	C	ARG	C	85	64.016	47.419	42.272	1.00	34.69	C
ATOM	6601	O	ARG	C	85	64.057	47.750	41.084	1.00	33.06	O
ATOM	6602	N	PRO	C	86	63.127	47.932	43.125	1.00	36.52	N
ATOM	6603	CA	PRO	C	86	62.178	48.971	42.699	1.00	40.41	C
ATOM	6604	CB	PRO	C	86	61.553	49.427	44.019	1.00	40.34	C
ATOM	6605	CG	PRO	C	86	61.603	48.206	44.874	1.00	38.74	C
ATOM	6606	CD	PRO	C	86	62.926	47.556	44.539	1.00	36.72	C
ATOM	6607	C	PRO	C	86	62.849	50.143	41.974	1.00	42.31	C
ATOM	6608	O	PRO	C	86	62.270	50.662	41.021	1.00	46.05	O
ATOM	6609	N	ASP	C	87	64.057	50.516	42.394	1.00	47.22	N
ATOM	6610	CA	ASP	C	87	64.751	51.681	41.837	1.00	51.71	C
ATOM	6611	CB	ASP	C	87	65.624	52.360	42.903	1.00	56.62	C
ATOM	6612	CG	ASP	C	87	66.658	51.424	43.500	1.00	61.71	C
ATOM	6613	OD1	ASP	C	87	66.540	51.096	44.701	1.00	63.47	O
ATOM	6614	OD2	ASP	C	87	67.624	50.972	42.850	1.00	64.75	O
ATOM	6615	C	ASP	C	87	65.568	51.427	40.560	1.00	50.34	C
ATOM	6616	O	ASP	C	87	65.912	52.380	39.854	1.00	51.47	O
ATOM	6617	N	ASN	C	88	65.884	50.166	40.262	1.00	45.29	N
ATOM	6618	CA	ASN	C	88	66.677	49.855	39.067	1.00	41.09	C
ATOM	6619	CB	ASN	C	88	67.933	49.029	39.409	1.00	40.26	C
ATOM	6620	CG	ASN	C	88	67.615	47.604	39.868	1.00	42.84	C
ATOM	6621	OD1	ASN	C	88	66.504	47.099	39.683	1.00	39.64	O
ATOM	6622	ND2	ASN	C	88	68.606	46.950	40.469	1.00	38.02	N
ATOM	6623	C	ASN	C	88	65.882	49.239	37.915	1.00	41.91	C
ATOM	6624	O	ASN	C	88	66.459	48.762	36.939	1.00	41.88	O
ATOM	6625	N	MET	C	89	64.558	49.270	38.039	1.00	44.04	N
ATOM	6626	CA	MET	C	89	63.645	48.647	37.081	1.00	46.28	C
ATOM	6627	CB	MET	C	89	62.202	48.896	37.510	1.00	47.51	C
ATOM	6628	CG	MET	C	89	61.578	47.742	38.261	1.00	48.49	C
ATOM	6629	SD	MET	C	89	60.040	48.213	39.066	1.00	47.57	S
ATOM	6630	CE	MET	C	89	59.050	48.771	37.665	1.00	51.37	C
ATOM	6631	C	MET	C	89	63.825	49.091	35.630	1.00	49.09	C
ATOM	6632	O	MET	C	89	63.721	48.275	34.709	1.00	48.97	O
ATOM	6633	N	SER	C	90	64.089	50.384	35.437	1.00	52.40	N
ATOM	6634	CA	SER	C	90	64.284	50.968	34.107	1.00	55.02	C
ATOM	6635	CB	SER	C	90	64.495	52.483	34.214	1.00	58.10	C
ATOM	6636	OG	SER	C	90	65.169	52.831	35.415	1.00	59.72	O
ATOM	6637	C	SER	C	90	65.447	50.323	33.348	1.00	55.52	C
ATOM	6638	O	SER	C	90	65.411	50.202	32.123	1.00	54.90	O
ATOM	6639	N	GLU	C	91	66.465	49.903	34.094	1.00	57.12	N
ATOM	6640	CA	GLU	C	91	67.644	49.247	33.536	1.00	58.98	C
ATOM	6641	CB	GLU	C	91	68.776	49.264	34.570	1.00	64.10	C
ATOM	6642	CG	GLU	C	91	70.177	49.130	33.995	1.00	71.27	C
ATOM	6643	CD	GLU	C	91	70.907	47.914	34.534	1.00	75.28	C
ATOM	6644	OE1	GLU	C	91	71.128	46.957	33.758	1.00	77.15	O
ATOM	6645	OE2	GLU	C	91	71.259	47.913	35.736	1.00	77.13	O
ATOM	6646	C	GLU	C	91	67.362	47.809	33.078	1.00	56.54	C
ATOM	6647	O	GLU	C	91	68.063	47.287	32.209	1.00	54.98	O
ATOM	6648	N	TYR	C	92	66.333	47.186	33.657	1.00	53.13	N
ATOM	6649	CA	TYR	C	92	66.037	45.769	33.419	1.00	49.62	C
ATOM	6650	CB	TYR	C	92	66.002	45.013	34.751	1.00	49.52	C
ATOM	6651	CG	TYR	C	92	67.350	44.808	35.398	1.00	52.89	C
ATOM	6652	CD1	TYR	C	92	67.789	45.651	36.422	1.00	53.13	C
ATOM	6653	CE1	TYR	C	92	69.033	45.465	37.025	1.00	55.88	C
ATOM	6654	CZ	TYR	C	92	69.849	44.424	36.604	1.00	57.29	C
ATOM	6655	OH	TYR	C	92	71.080	44.232	37.191	1.00	56.51	O
ATOM	6656	CE2	TYR	C	92	69.432	43.571	35.592	1.00	56.80	C
ATOM	6657	CD2	TYR	C	92	68.187	43.766	34.997	1.00	54.86	C
ATOM	6658	C	TYR	C	92	64.729	45.513	32.661	1.00	46.60	C
ATOM	6659	O	TYR	C	92	64.146	44.431	32.779	1.00	41.05	O
ATOM	6660	N	SER	C	93	64.280	46.492	31.874	1.00	42.97	N
ATOM	6661	CA	SER	C	93	62.977	46.410	31.208	1.00	42.92	C
ATOM	6662	CB	SER	C	93	62.645	47.726	30.494	1.00	44.04	C

ATOM	6663	OG	SER	C	93	63.253	47.790	29.216	1.00	45.92	O
ATOM	6664	C	SER	C	93	62.837	45.209	30.254	1.00	43.21	C
ATOM	6665	O	SER	C	93	61.770	44.593	30.177	1.00	41.98	O
ATOM	6666	N	LYS	C	94	63.912	44.882	29.539	1.00	41.80	N
ATOM	6667	CA	LYS	C	94	63.910	43.739	28.623	1.00	43.81	C
ATOM	6668	CB	LYS	C	94	65.139	43.771	27.707	1.00	48.40	C
ATOM	6669	CG	LYS	C	94	64.970	44.647	26.472	1.00	54.62	C
ATOM	6670	CD	LYS	C	94	64.697	43.814	25.223	1.00	58.11	C
ATOM	6671	CE	LYS	C	94	64.154	44.677	24.091	1.00	61.27	C
ATOM	6672	NZ	LYS	C	94	62.674	44.856	24.180	1.00	61.18	N
ATOM	6673	C	LYS	C	94	63.845	42.406	29.374	1.00	40.97	C
ATOM	6674	O	LYS	C	94	63.180	41.460	28.933	1.00	36.46	O
ATOM	6675	N	GLN	C	95	64.533	42.346	30.510	1.00	37.80	N
ATOM	6676	CA	GLN	C	95	64.551	41.147	31.343	1.00	36.95	C
ATOM	6677	CB	BGLN	C	95	65.711	41.193	32.342	0.35	35.46	C
ATOM	6678	CB	AGLN	C	95	65.689	41.225	32.363	0.65	38.79	C
ATOM	6679	CG	BGLN	C	95	66.917	40.355	31.921	0.35	36.14	C
ATOM	6680	CG	AGLN	C	95	67.082	41.017	31.773	0.65	43.69	C
ATOM	6681	CD	BGLN	C	95	68.146	40.597	32.782	0.35	35.55	C
ATOM	6682	CD	AGLN	C	95	67.647	42.272	31.124	0.65	46.90	C
ATOM	6683	OE1BGLN	C	95	68.149	40.290	33.974	0.35	34.90	O	
ATOM	6684	OE1AGLN	C	95	67.744	43.321	31.763	0.65	48.19	O	
ATOM	6685	NE2BGLN	C	95	69.196	41.141	32.177	0.35	36.27	N	
ATOM	6686	NE2AGLN	C	95	68.021	42.165	29.853	0.65	48.36	N	
ATOM	6687	C	GLN	C	95	63.211	40.966	32.059	1.00	32.27	C
ATOM	6688	O	GLN	C	95	62.747	39.848	32.253	1.00	28.90	O
ATOM	6689	N	MET	C	96	62.584	42.078	32.423	1.00	28.84	N
ATOM	6690	CA	MET	C	96	61.261	42.053	33.034	1.00	34.15	C
ATOM	6691	CB	MET	C	96	60.851	43.460	33.449	1.00	36.61	C
ATOM	6692	CG	MET	C	96	61.429	43.880	34.791	1.00	40.23	C
ATOM	6693	SD	MET	C	96	61.165	45.625	35.117	1.00	43.93	S
ATOM	6694	CE	MET	C	96	59.502	45.596	35.750	1.00	43.59	C
ATOM	6695	C	MET	C	96	60.207	41.437	32.112	1.00	33.53	C
ATOM	6696	O	MET	C	96	59.340	40.689	32.568	1.00	32.97	O
ATOM	6697	N	GLN	C	97	60.288	41.751	30.821	1.00	34.13	N
ATOM	6698	CA	GLN	C	97	59.425	41.117	29.827	1.00	34.96	C
ATOM	6699	CB	GLN	C	97	59.507	41.830	28.471	1.00	37.15	C
ATOM	6700	CG	GLN	C	97	58.472	41.319	27.452	1.00	41.82	C
ATOM	6701	CD	GLN	C	97	58.457	42.106	26.152	1.00	46.05	C
ATOM	6702	OE1	GLN	C	97	58.649	43.326	26.149	1.00	47.37	O
ATOM	6703	NE2	GLN	C	97	58.223	41.410	25.042	1.00	43.78	N
ATOM	6704	C	GLN	C	97	59.782	39.643	29.666	1.00	31.93	C
ATOM	6705	O	GLN	C	97	58.893	38.793	29.586	1.00	32.40	O
ATOM	6706	N	ARG	C	98	61.080	39.345	29.619	1.00	28.77	N
ATOM	6707	CA	ARG	C	98	61.551	37.964	29.487	1.00	29.76	C
ATOM	6708	CB	ARG	C	98	63.080	37.914	29.425	1.00	31.45	C
ATOM	6709	CG	ARG	C	98	63.632	36.607	28.871	1.00	38.28	C
ATOM	6710	CD	ARG	C	98	65.134	36.422	29.061	1.00	44.58	C
ATOM	6711	NE	ARG	C	98	65.890	36.659	27.827	1.00	53.60	N
ATOM	6712	CZ	ARG	C	98	66.039	35.777	26.835	1.00	56.33	C
ATOM	6713	NH1	ARG	C	98	66.751	36.103	25.765	1.00	59.20	N
ATOM	6714	NH2	ARG	C	98	65.484	34.572	26.900	1.00	57.31	N
ATOM	6715	C	ARG	C	98	61.053	37.063	30.621	1.00	28.22	C
ATOM	6716	O	ARG	C	98	60.673	35.918	30.387	1.00	31.67	O
ATOM	6717	N	PHE	C	99	61.064	37.594	31.840	1.00	26.76	N
ATOM	6718	CA	PHE	C	99	60.810	36.801	33.044	1.00	25.35	C
ATOM	6719	CB	PHE	C	99	61.912	37.059	34.085	1.00	23.18	C
ATOM	6720	CG	PHE	C	99	63.309	36.704	33.603	1.00	27.15	C
ATOM	6721	CD1	PHE	C	99	63.569	35.470	33.004	1.00	27.70	C
ATOM	6722	CE1	PHE	C	99	64.860	35.139	32.559	1.00	30.07	C
ATOM	6723	CZ	PHE	C	99	65.895	36.057	32.702	1.00	27.13	C
ATOM	6724	CE2	PHE	C	99	65.647	37.291	33.297	1.00	28.94	C
ATOM	6725	CD2	PHE	C	99	64.358	37.608	33.743	1.00	28.32	C

ATOM	6726	C	PHE	C	99	59.419	37.045	33.644	1.00	26.64	C
ATOM	6727	O	PHE	C	99	59.090	36.486	34.695	1.00	29.14	O
ATOM	6728	N	ASN	C	100	58.619	37.873	32.964	1.00	28.51	N
ATOM	6729	CA	ASN	C	100	57.246	38.209	33.372	1.00	28.85	C
ATOM	6730	CB	ASN	C	100	56.325	36.986	33.234	1.00	33.50	C
ATOM	6731	CG	ASN	C	100	54.849	37.336	33.340	1.00	36.24	C
ATOM	6732	OD1	ASN	C	100	54.384	38.312	32.749	1.00	38.95	O
ATOM	6733	ND2	ASN	C	100	54.104	36.530	34.097	1.00	31.90	N
ATOM	6734	C	ASN	C	100	57.158	38.833	34.772	1.00	29.73	C
ATOM	6735	O	ASN	C	100	56.307	38.465	35.588	1.00	27.05	O
ATOM	6736	N	VAL	C	101	58.051	39.780	35.046	1.00	26.04	N
ATOM	6737	CA	VAL	C	101	58.082	40.453	36.341	1.00	31.33	C
ATOM	6738	CB	VAL	C	101	59.448	40.254	37.045	1.00	31.40	C
ATOM	6739	CG1	VAL	C	101	59.590	41.155	38.266	1.00	30.92	C
ATOM	6740	CG2	VAL	C	101	59.630	38.793	37.457	1.00	30.63	C
ATOM	6741	C	VAL	C	101	57.758	41.938	36.155	1.00	37.11	C
ATOM	6742	O	VAL	C	101	58.294	42.582	35.250	1.00	34.11	O
ATOM	6743	N	GLY	C	102	56.863	42.462	36.993	1.00	39.75	N
ATOM	6744	CA	GLY	C	102	56.506	43.873	36.952	1.00	44.81	C
ATOM	6745	C	GLY	C	102	55.023	44.204	37.008	1.00	47.01	C
ATOM	6746	O	GLY	C	102	54.657	45.323	37.376	1.00	48.06	O
ATOM	6747	N	GLU	C	103	54.175	43.243	36.644	1.00	48.24	N
ATOM	6748	CA	GLU	C	103	52.726	43.449	36.614	1.00	49.54	C
ATOM	6749	CB	GLU	C	103	52.164	43.129	35.225	1.00	54.62	C
ATOM	6750	CG	GLU	C	103	52.395	44.224	34.194	1.00	60.36	C
ATOM	6751	CD	GLU	C	103	51.309	45.282	34.214	1.00	64.34	C
ATOM	6752	OE1	GLU	C	103	50.349	45.164	33.422	1.00	66.74	O
ATOM	6753	OE2	GLU	C	103	51.414	46.233	35.020	1.00	66.91	O
ATOM	6754	C	GLU	C	103	52.016	42.636	37.696	1.00	45.89	C
ATOM	6755	O	GLU	C	103	51.883	43.098	38.831	1.00	45.41	O
ATOM	6756	N	ASP	C	104	51.570	41.429	37.345	1.00	44.36	N
ATOM	6757	CA	ASP	C	104	50.969	40.503	38.303	1.00	41.06	C
ATOM	6758	CB	ASP	C	104	50.582	39.195	37.613	1.00	48.67	C
ATOM	6759	CG	ASP	C	104	49.189	39.227	37.012	1.00	53.92	C
ATOM	6760	OD1	ASP	C	104	48.474	40.242	37.170	1.00	56.33	O
ATOM	6761	OD2	ASP	C	104	48.727	38.267	36.356	1.00	56.01	O
ATOM	6762	C	ASP	C	104	51.951	40.188	39.420	1.00	37.77	C
ATOM	6763	O	ASP	C	104	51.565	40.064	40.582	1.00	36.85	O
ATOM	6764	N	CYS	C	105	53.221	40.048	39.046	1.00	30.82	N
ATOM	6765	CA	CYS	C	105	54.292	39.738	39.977	1.00	28.07	C
ATOM	6766	CB	CYS	C	105	55.050	38.501	39.506	1.00	30.49	C
ATOM	6767	SG	CYS	C	105	53.958	37.149	39.013	1.00	31.80	S
ATOM	6768	C	CYS	C	105	55.227	40.937	40.066	1.00	31.38	C
ATOM	6769	O	CYS	C	105	56.223	41.008	39.342	1.00	30.00	O
ATOM	6770	N	PRO	C	106	54.908	41.877	40.955	1.00	30.91	N
ATOM	6771	CA	PRO	C	106	55.649	43.140	41.030	1.00	29.66	C
ATOM	6772	CB	PRO	C	106	54.807	43.980	41.997	1.00	32.19	C
ATOM	6773	CG	PRO	C	106	54.117	42.974	42.864	1.00	31.75	C
ATOM	6774	CD	PRO	C	106	53.835	41.805	41.967	1.00	32.10	C
ATOM	6775	C	PRO	C	106	57.050	42.967	41.595	1.00	31.00	C
ATOM	6776	O	PRO	C	106	57.337	41.965	42.253	1.00	28.23	O
ATOM	6777	N	VAL	C	107	57.907	43.947	41.328	1.00	32.13	N
ATOM	6778	CA	VAL	C	107	59.160	44.084	42.051	1.00	33.53	C
ATOM	6779	CB	VAL	C	107	60.210	44.891	41.256	1.00	35.73	C
ATOM	6780	CG1	VAL	C	107	61.555	44.869	41.969	1.00	37.66	C
ATOM	6781	CG2	VAL	C	107	60.348	44.358	39.834	1.00	37.07	C
ATOM	6782	C	VAL	C	107	58.858	44.801	43.365	1.00	35.11	C
ATOM	6783	O	VAL	C	107	58.206	45.850	43.381	1.00	34.28	O
ATOM	6784	N	PHE	C	108	59.309	44.218	44.468	1.00	35.01	N
ATOM	6785	CA	PHE	C	108	59.215	44.877	45.763	1.00	32.91	C
ATOM	6786	CB	PHE	C	108	57.950	44.447	46.524	1.00	31.70	C
ATOM	6787	CG	PHE	C	108	57.795	42.952	46.688	1.00	32.36	C
ATOM	6788	CD1	PHE	C	108	57.063	42.209	45.764	1.00	31.31	C

ATOM	6789	CE1	PHE	C	108	56.896	40.828	45.923	1.00	32.19	C
ATOM	6790	CZ	PHE	C	108	57.460	40.182	47.018	1.00	30.65	C
ATOM	6791	CE2	PHE	C	108	58.189	40.915	47.952	1.00	32.50	C
ATOM	6792	CD2	PHE	C	108	58.346	42.296	47.785	1.00	30.71	C
ATOM	6793	C	PHE	C	108	60.481	44.650	46.579	1.00	34.69	C
ATOM	6794	O	PHE	C	108	61.285	43.769	46.255	1.00	30.51	O
ATOM	6795	N	ASP	C	109	60.657	45.453	47.627	1.00	35.25	N
ATOM	6796	CA	ASP	C	109	61.843	45.372	48.473	1.00	36.14	C
ATOM	6797	CB	ASP	C	109	61.894	46.555	49.446	1.00	41.72	C
ATOM	6798	CG	ASP	C	109	62.140	47.885	48.744	1.00	46.61	C
ATOM	6799	OD1	ASP	C	109	63.065	47.962	47.906	1.00	48.16	O
ATOM	6800	OD2	ASP	C	109	61.462	48.912	48.971	1.00	49.82	O
ATOM	6801	C	ASP	C	109	61.876	44.054	49.241	1.00	34.01	C
ATOM	6802	O	ASP	C	109	60.888	43.666	49.868	1.00	32.23	O
ATOM	6803	N	GLY	C	110	63.012	43.368	49.176	1.00	31.89	N
ATOM	6804	CA	GLY	C	110	63.181	42.098	49.862	1.00	29.75	C
ATOM	6805	C	GLY	C	110	62.577	40.924	49.107	1.00	30.18	C
ATOM	6806	O	GLY	C	110	62.409	39.843	49.676	1.00	30.90	O
ATOM	6807	N	LEU	C	111	62.264	41.135	47.827	1.00	27.41	N
ATOM	6808	CA	LEU	C	111	61.663	40.098	46.980	1.00	27.95	C
ATOM	6809	CB	LEU	C	111	61.552	40.574	45.521	1.00	26.73	C
ATOM	6810	CG	LEU	C	111	61.236	39.529	44.440	1.00	28.82	C
ATOM	6811	CD1	LEU	C	111	59.879	38.870	44.689	1.00	28.29	C
ATOM	6812	CD2	LEU	C	111	61.277	40.136	43.049	1.00	28.23	C
ATOM	6813	C	LEU	C	111	62.424	38.771	47.050	1.00	25.73	C
ATOM	6814	O	LEU	C	111	61.828	37.713	47.293	1.00	25.43	O
ATOM	6815	N	PHE	C	112	63.737	38.827	46.841	1.00	23.41	N
ATOM	6816	CA	PHE	C	112	64.524	37.598	46.815	1.00	23.63	C
ATOM	6817	CB	PHE	C	112	65.946	37.839	46.304	1.00	26.96	C
ATOM	6818	CG	PHE	C	112	66.679	36.570	45.999	1.00	26.70	C
ATOM	6819	CD1	PHE	C	112	66.278	35.763	44.937	1.00	29.91	C
ATOM	6820	CE1	PHE	C	112	66.937	34.571	44.660	1.00	29.41	C
ATOM	6821	CZ	PHE	C	112	68.000	34.170	45.460	1.00	30.30	C
ATOM	6822	CE2	PHE	C	112	68.404	34.965	46.529	1.00	30.08	C
ATOM	6823	CD2	PHE	C	112	67.738	36.156	46.795	1.00	27.87	C
ATOM	6824	C	PHE	C	112	64.554	36.908	48.170	1.00	23.48	C
ATOM	6825	O	PHE	C	112	64.371	35.689	48.266	1.00	23.72	O
ATOM	6826	N	GLU	C	113	64.760	37.693	49.223	1.00	25.28	N
ATOM	6827	CA	GLU	C	113	64.777	37.156	50.580	1.00	26.50	C
ATOM	6828	CB	GLU	C	113	65.123	38.264	51.582	1.00	34.42	C
ATOM	6829	CG	GLU	C	113	66.559	38.784	51.490	1.00	41.94	C
ATOM	6830	CD	GLU	C	113	66.853	39.621	50.240	1.00	47.93	C
ATOM	6831	OE1	GLU	C	113	68.044	39.708	49.858	1.00	50.38	O
ATOM	6832	OE2	GLU	C	113	65.916	40.201	49.637	1.00	44.88	O
ATOM	6833	C	GLU	C	113	63.432	36.497	50.910	1.00	24.53	C
ATOM	6834	O	GLU	C	113	63.378	35.461	51.579	1.00	24.37	O
ATOM	6835	N	PHE	C	114	62.352	37.098	50.420	1.00	23.45	N
ATOM	6836	CA	PHE	C	114	61.011	36.525	50.542	1.00	27.29	C
ATOM	6837	CB	PHE	C	114	59.989	37.469	49.900	1.00	31.23	C
ATOM	6838	CG	PHE	C	114	58.590	36.925	49.845	1.00	35.45	C
ATOM	6839	CD1	PHE	C	114	58.038	36.525	48.633	1.00	37.00	C
ATOM	6840	CE1	PHE	C	114	56.735	36.029	48.570	1.00	41.27	C
ATOM	6841	CZ	PHE	C	114	55.971	35.937	49.730	1.00	41.87	C
ATOM	6842	CE2	PHE	C	114	56.511	36.342	50.948	1.00	40.74	C
ATOM	6843	CD2	PHE	C	114	57.812	36.837	50.998	1.00	37.71	C
ATOM	6844	C	PHE	C	114	60.961	35.127	49.912	1.00	27.80	C
ATOM	6845	O	PHE	C	114	60.499	34.170	50.538	1.00	25.54	O
ATOM	6846	N	CYS	C	115	61.475	35.016	48.687	1.00	26.56	N
ATOM	6847	CA	CYS	C	115	61.545	33.737	47.978	1.00	27.28	C
ATOM	6848	CB	CYS	C	115	62.091	33.935	46.563	1.00	26.29	C
ATOM	6849	SG	CYS	C	115	61.035	34.976	45.539	1.00	30.90	S
ATOM	6850	C	CYS	C	115	62.397	32.717	48.722	1.00	26.12	C
ATOM	6851	O	CYS	C	115	62.053	31.535	48.767	1.00	26.73	O

ATOM	6852	N	GLN	C	116	63.501	33.176	49.311	1.00	21.66	N
ATOM	6853	CA	GLN	C	116	64.416	32.289	50.024	1.00	21.67	C
ATOM	6854	CB	GLN	C	116	65.672	33.043	50.476	1.00	22.09	C
ATOM	6855	CG	GLN	C	116	66.600	33.439	49.348	1.00	23.33	C
ATOM	6856	CD	GLN	C	116	67.896	34.026	49.866	1.00	28.17	C
ATOM	6857	OE1	GLN	C	116	67.952	35.210	50.181	1.00	29.37	O
ATOM	6858	NE2	GLN	C	116	68.930	33.196	49.977	1.00	26.66	N
ATOM	6859	C	GLN	C	116	63.747	31.647	51.226	1.00	20.65	C
ATOM	6860	O	GLN	C	116	63.952	30.464	51.494	1.00	22.70	O
ATOM	6861	N	LEU	C	117	62.956	32.437	51.947	1.00	21.28	N
ATOM	6862	CA	LEU	C	117	62.302	31.971	53.171	1.00	27.80	C
ATOM	6863	CB	LEU	C	117	61.842	33.160	54.014	1.00	29.06	C
ATOM	6864	CG	LEU	C	117	62.940	33.981	54.691	1.00	30.85	C
ATOM	6865	CD1	LEU	C	117	62.341	35.250	55.272	1.00	29.59	C
ATOM	6866	CD2	LEU	C	117	63.657	33.167	55.770	1.00	32.44	C
ATOM	6867	C	LEU	C	117	61.124	31.048	52.887	1.00	27.36	C
ATOM	6868	O	LEU	C	117	60.950	30.028	53.559	1.00	27.76	O
ATOM	6869	N	SER	C	118	60.316	31.416	51.896	1.00	28.94	N
ATOM	6870	CA	SER	C	118	59.193	30.590	51.461	1.00	29.90	C
ATOM	6871	CB	SER	C	118	58.413	31.312	50.350	1.00	34.15	C
ATOM	6872	OG	SER	C	118	57.523	30.442	49.667	1.00	41.41	O
ATOM	6873	C	SER	C	118	59.714	29.222	51.002	1.00	28.25	C
ATOM	6874	O	SER	C	118	59.238	28.175	51.451	1.00	25.83	O
ATOM	6875	N	THR	C	119	60.725	29.247	50.139	1.00	26.33	N
ATOM	6876	CA	THR	C	119	61.359	28.036	49.622	1.00	24.92	C
ATOM	6877	CB	THR	C	119	62.343	28.410	48.487	1.00	24.00	C
ATOM	6878	OG1	THR	C	119	61.612	29.040	47.426	1.00	24.68	O
ATOM	6879	CG2	THR	C	119	62.932	27.169	47.833	1.00	27.43	C
ATOM	6880	C	THR	C	119	62.053	27.220	50.711	1.00	26.71	C
ATOM	6881	O	THR	C	119	61.928	25.992	50.743	1.00	22.77	O
ATOM	6882	N	GLY	C	120	62.777	27.905	51.597	1.00	23.47	N
ATOM	6883	CA	GLY	C	120	63.475	27.261	52.699	1.00	25.53	C
ATOM	6884	C	GLY	C	120	62.592	26.338	53.519	1.00	23.72	C
ATOM	6885	O	GLY	C	120	62.969	25.194	53.800	1.00	24.50	O
ATOM	6886	N	GLY	C	121	61.412	26.833	53.890	1.00	23.03	N
ATOM	6887	CA	GLY	C	121	60.441	26.052	54.642	1.00	23.63	C
ATOM	6888	C	GLY	C	121	60.013	24.764	53.957	1.00	22.63	C
ATOM	6889	O	GLY	C	121	59.902	23.713	54.610	1.00	25.23	O
ATOM	6890	N	SER	C	122	59.775	24.842	52.647	1.00	20.95	N
ATOM	6891	CA	SER	C	122	59.305	23.693	51.872	1.00	21.28	C
ATOM	6892	CB	SER	C	122	58.779	24.146	50.512	1.00	20.48	C
ATOM	6893	OG	SER	C	122	57.678	25.025	50.675	1.00	25.30	O
ATOM	6894	C	SER	C	122	60.391	22.631	51.707	1.00	19.54	C
ATOM	6895	O	SER	C	122	60.135	21.442	51.908	1.00	22.02	O
ATOM	6896	N	VAL	C	123	61.597	23.062	51.338	1.00	20.21	N
ATOM	6897	CA	VAL	C	123	62.741	22.151	51.214	1.00	20.95	C
ATOM	6898	CB	VAL	C	123	63.949	22.837	50.506	1.00	24.13	C
ATOM	6899	CG1	VAL	C	123	65.173	21.916	50.472	1.00	26.86	C
ATOM	6900	CG2	VAL	C	123	63.569	23.259	49.077	1.00	22.88	C
ATOM	6901	C	VAL	C	123	63.142	21.530	52.570	1.00	22.56	C
ATOM	6902	O	VAL	C	123	63.417	20.327	52.654	1.00	23.36	O
ATOM	6903	N	ALA	C	124	63.160	22.341	53.630	1.00	26.05	N
ATOM	6904	CA	ALA	C	124	63.485	21.835	54.973	1.00	24.64	C
ATOM	6905	CB	ALA	C	124	63.510	22.966	55.990	1.00	25.75	C
ATOM	6906	C	ALA	C	124	62.494	20.761	55.403	1.00	24.40	C
ATOM	6907	O	ALA	C	124	62.892	19.726	55.947	1.00	27.04	O
ATOM	6908	N	GLY	C	125	61.209	21.023	55.152	1.00	24.22	N
ATOM	6909	CA	GLY	C	125	60.139	20.070	55.401	1.00	24.71	C
ATOM	6910	C	GLY	C	125	60.330	18.752	54.668	1.00	28.40	C
ATOM	6911	O	GLY	C	125	60.141	17.678	55.256	1.00	25.40	O
ATOM	6912	N	ALA	C	126	60.699	18.835	53.387	1.00	23.31	N
ATOM	6913	CA	ALA	C	126	61.041	17.651	52.594	1.00	23.38	C
ATOM	6914	CB	ALA	C	126	61.341	18.039	51.145	1.00	22.89	C

ATOM	6915	C	ALA	C	126	62.221	16.875	53.191	1.00	25.11	C
ATOM	6916	O	ALA	C	126	62.185	15.644	53.262	1.00	25.77	O
ATOM	6917	N	VAL	C	127	63.252	17.601	53.619	1.00	25.67	N
ATOM	6918	CA	VAL	C	127	64.443	16.999	54.221	1.00	28.70	C
ATOM	6919	CB	VAL	C	127	65.548	18.058	54.484	1.00	29.69	C
ATOM	6920	CG1	VAL	C	127	66.620	17.523	55.435	1.00	33.50	C
ATOM	6921	CG2	VAL	C	127	66.187	18.512	53.173	1.00	30.01	C
ATOM	6922	C	VAL	C	127	64.090	16.245	55.511	1.00	29.06	C
ATOM	6923	O	VAL	C	127	64.589	15.142	55.744	1.00	30.11	O
ATOM	6924	N	LYS	C	128	63.224	16.842	56.329	1.00	29.40	N
ATOM	6925	CA	LYS	C	128	62.780	16.229	57.580	1.00	31.30	C
ATOM	6926	CB	LYS	C	128	61.974	17.226	58.418	1.00	37.77	C
ATOM	6927	CG	LYS	C	128	62.085	17.019	59.924	1.00	45.01	C
ATOM	6928	CD	LYS	C	128	63.116	17.955	60.540	1.00	48.67	C
ATOM	6929	CE	LYS	C	128	62.830	18.197	62.015	1.00	52.47	C
ATOM	6930	NZ	LYS	C	128	63.334	17.093	62.884	1.00	53.86	N
ATOM	6931	C	LYS	C	128	61.963	14.966	57.317	1.00	29.30	C
ATOM	6932	O	LYS	C	128	62.109	13.969	58.025	1.00	29.69	O
ATOM	6933	N	LEU	C	129	61.110	15.024	56.296	1.00	25.90	N
ATOM	6934	CA	LEU	C	129	60.348	13.869	55.829	1.00	27.59	C
ATOM	6935	CB	LEU	C	129	59.400	14.287	54.700	1.00	29.00	C
ATOM	6936	CG	LEU	C	129	57.878	14.433	54.857	1.00	33.00	C
ATOM	6937	CD1	LEU	C	129	57.339	14.152	56.264	1.00	29.48	C
ATOM	6938	CD2	LEU	C	129	57.420	15.802	54.352	1.00	29.11	C
ATOM	6939	C	LEU	C	129	61.284	12.768	55.333	1.00	31.36	C
ATOM	6940	O	LEU	C	129	61.114	11.595	55.685	1.00	35.42	O
ATOM	6941	N	ASN	C	130	62.271	13.154	54.521	1.00	29.71	N
ATOM	6942	CA	ASN	C	130	63.277	12.226	53.999	1.00	30.07	C
ATOM	6943	CB	ASN	C	130	64.275	12.961	53.091	1.00	27.87	C
ATOM	6944	CG	ASN	C	130	63.737	13.201	51.681	1.00	28.22	C
ATOM	6945	OD1	ASN	C	130	62.712	12.648	51.280	1.00	26.43	O
ATOM	6946	ND2	ASN	C	130	64.445	14.022	50.923	1.00	28.71	N
ATOM	6947	C	ASN	C	130	64.040	11.499	55.112	1.00	34.00	C
ATOM	6948	O	ASN	C	130	64.241	10.285	55.048	1.00	35.51	O
ATOM	6949	N	ARG	C	131	64.452	12.250	56.130	1.00	35.18	N
ATOM	6950	CA	ARG	C	131	65.237	11.709	57.239	1.00	40.35	C
ATOM	6951	CB	ARG	C	131	66.050	12.822	57.908	1.00	41.46	C
ATOM	6952	CG	ARG	C	131	67.203	13.343	57.063	1.00	45.97	C
ATOM	6953	CD	ARG	C	131	67.857	14.598	57.613	1.00	49.78	C
ATOM	6954	NE	ARG	C	131	68.947	15.061	56.756	1.00	54.97	N
ATOM	6955	CZ	ARG	C	131	69.705	16.127	57.004	1.00	56.18	C
ATOM	6956	NH1	ARG	C	131	70.669	16.461	56.158	1.00	57.36	N
ATOM	6957	NH2	ARG	C	131	69.505	16.861	58.092	1.00	56.49	N
ATOM	6958	C	ARG	C	131	64.374	10.984	58.275	1.00	41.23	C
ATOM	6959	O	ARG	C	131	64.883	10.528	59.306	1.00	37.56	O
ATOM	6960	N	GLN	C	132	63.074	10.883	57.988	1.00	42.12	N
ATOM	6961	CA	GLN	C	132	62.098	10.205	58.847	1.00	45.95	C
ATOM	6962	CB	GLN	C	132	62.297	8.679	58.814	1.00	47.73	C
ATOM	6963	CG	GLN	C	132	61.797	8.025	57.533	1.00	51.66	C
ATOM	6964	CD	GLN	C	132	62.011	6.523	57.513	1.00	55.87	C
ATOM	6965	OE1	GLN	C	132	63.146	6.054	57.431	1.00	57.55	O
ATOM	6966	NE2	GLN	C	132	60.921	5.766	57.585	1.00	57.31	N
ATOM	6967	C	GLN	C	132	62.119	10.749	60.277	1.00	45.78	C
ATOM	6968	O	GLN	C	132	61.986	10.002	61.250	1.00	44.29	O
ATOM	6969	N	GLN	C	133	62.291	12.064	60.380	1.00	44.67	N
ATOM	6970	CA	GLN	C	133	62.285	12.761	61.657	1.00	44.60	C
ATOM	6971	CB	GLN	C	133	63.352	13.857	61.668	1.00	47.87	C
ATOM	6972	CG	GLN	C	133	64.751	13.361	62.043	1.00	53.97	C
ATOM	6973	CD	GLN	C	133	65.871	14.247	61.509	1.00	56.96	C
ATOM	6974	OE1	GLN	C	133	65.680	15.444	61.287	1.00	59.27	O
ATOM	6975	NE2	GLN	C	133	67.042	13.656	61.306	1.00	59.06	N
ATOM	6976	C	GLN	C	133	60.898	13.335	61.966	1.00	43.38	C
ATOM	6977	O	GLN	C	133	60.674	13.883	63.048	1.00	44.99	O

ATOM	6978	N	THR	C	134	59.973	13.199	61.012	1.00	38.88	N
ATOM	6979	CA	THR	C	134	58.582	13.626	61.187	1.00	35.79	C
ATOM	6980	CB	THR	C	134	58.439	15.172	61.021	1.00	35.34	C
ATOM	6981	OG1	THR	C	134	57.122	15.582	61.413	1.00	34.59	O
ATOM	6982	CG2	THR	C	134	58.531	15.596	59.550	1.00	32.32	C
ATOM	6983	C	THR	C	134	57.640	12.883	60.245	1.00	35.70	C
ATOM	6984	O	THR	C	134	58.074	12.318	59.240	1.00	35.25	O
ATOM	6985	N	ASP	C	135	56.351	12.889	60.578	1.00	35.15	N
ATOM	6986	CA	ASP	C	135	55.330	12.257	59.749	1.00	34.99	C
ATOM	6987	CB	ASP	C	135	54.261	11.609	60.630	1.00	40.85	C
ATOM	6988	CG	ASP	C	135	54.821	10.500	61.497	1.00	44.88	C
ATOM	6989	OD1	ASP	C	135	54.838	10.661	62.735	1.00	46.42	O
ATOM	6990	OD2	ASP	C	135	55.270	9.433	61.026	1.00	47.04	O
ATOM	6991	C	ASP	C	135	54.683	13.258	58.801	1.00	32.77	C
ATOM	6992	O	ASP	C	135	54.272	12.906	57.690	1.00	29.31	O
ATOM	6993	N	MET	C	136	54.588	14.500	59.266	1.00	29.59	N
ATOM	6994	CA	MET	C	136	54.020	15.599	58.503	1.00	30.45	C
ATOM	6995	CB	MET	C	136	52.602	15.913	58.978	1.00	33.27	C
ATOM	6996	CG	MET	C	136	51.542	14.961	58.471	1.00	39.11	C
ATOM	6997	SD	MET	C	136	50.033	15.040	59.459	1.00	43.11	S
ATOM	6998	CE	MET	C	136	50.530	14.110	60.931	1.00	37.25	C
ATOM	6999	C	MET	C	136	54.881	16.833	58.694	1.00	28.46	C
ATOM	7000	O	MET	C	136	55.353	17.103	59.803	1.00	30.48	O
ATOM	7001	N	ALA	C	137	55.093	17.571	57.608	1.00	27.42	N
ATOM	7002	CA	ALA	C	137	55.734	18.879	57.678	1.00	25.31	C
ATOM	7003	CB	ALA	C	137	57.065	18.870	56.948	1.00	26.02	C
ATOM	7004	C	ALA	C	137	54.805	19.935	57.096	1.00	25.10	C
ATOM	7005	O	ALA	C	137	54.122	19.691	56.099	1.00	25.33	O
ATOM	7006	N	VAL	C	138	54.789	21.111	57.718	1.00	24.13	N
ATOM	7007	CA	VAL	C	138	53.866	22.173	57.343	1.00	23.18	C
ATOM	7008	CB	VAL	C	138	52.782	22.410	58.439	1.00	21.18	C
ATOM	7009	CG1	VAL	C	138	51.769	23.430	57.976	1.00	25.33	C
ATOM	7010	CG2	VAL	C	138	52.077	21.108	58.801	1.00	23.89	C
ATOM	7011	C	VAL	C	138	54.615	23.473	57.070	1.00	23.18	C
ATOM	7012	O	VAL	C	138	55.422	23.923	57.885	1.00	24.37	O
ATOM	7013	N	ASN	C	139	54.351	24.059	55.905	1.00	23.34	N
ATOM	7014	CA	ASN	C	139	54.888	25.369	55.561	1.00	22.31	C
ATOM	7015	CB	ASN	C	139	56.153	25.253	54.701	1.00	22.21	C
ATOM	7016	CG	ASN	C	139	56.679	26.607	54.256	1.00	25.72	C
ATOM	7017	OD1	ASN	C	139	56.593	27.592	54.993	1.00	26.13	O
ATOM	7018	ND2	ASN	C	139	57.221	26.664	53.045	1.00	23.27	N
ATOM	7019	C	ASN	C	139	53.840	26.207	54.855	1.00	25.88	C
ATOM	7020	O	ASN	C	139	53.692	26.141	53.628	1.00	21.64	O
ATOM	7021	N	TRP	C	140	53.116	27.008	55.633	1.00	24.47	N
ATOM	7022	CA	TRP	C	140	52.043	27.822	55.075	1.00	21.50	C
ATOM	7023	CB	TRP	C	140	51.111	28.349	56.178	1.00	23.35	C
ATOM	7024	CG	TRP	C	140	50.360	27.255	56.920	1.00	22.62	C
ATOM	7025	CD1	TRP	C	140	50.295	27.078	58.280	1.00	23.39	C
ATOM	7026	NE1	TRP	C	140	49.520	25.982	58.580	1.00	22.42	N
ATOM	7027	CE2	TRP	C	140	49.060	25.424	57.416	1.00	25.02	C
ATOM	7028	CD2	TRP	C	140	49.573	26.194	56.347	1.00	22.89	C
ATOM	7029	CE3	TRP	C	140	49.240	25.822	55.036	1.00	25.34	C
ATOM	7030	CZ3	TRP	C	140	48.431	24.702	54.835	1.00	24.95	C
ATOM	7031	CH2	TRP	C	140	47.939	23.961	55.919	1.00	27.91	C
ATOM	7032	CZ2	TRP	C	140	48.244	24.301	57.213	1.00	23.85	C
ATOM	7033	C	TRP	C	140	52.543	28.949	54.171	1.00	24.44	C
ATOM	7034	O	TRP	C	140	51.785	29.462	53.352	1.00	23.81	O
ATOM	7035	N	ALA	C	141	53.818	29.312	54.309	1.00	21.79	N
ATOM	7036	CA	ALA	C	141	54.432	30.313	53.440	1.00	24.08	C
ATOM	7037	CB	ALA	C	141	55.674	30.917	54.111	1.00	24.79	C
ATOM	7038	C	ALA	C	141	54.776	29.783	52.039	1.00	25.95	C
ATOM	7039	O	ALA	C	141	55.095	30.565	51.136	1.00	26.65	O
ATOM	7040	N	GLY	C	142	54.698	28.463	51.858	1.00	23.38	N

ATOM	7041	CA	GLY C 142	54.993	27.838	50.579	1.00	26.19	C
ATOM	7042	C	GLY C 142	53.768	27.593	49.708	1.00	26.19	C
ATOM	7043	O	GLY C 142	52.690	28.144	49.950	1.00	27.02	O
ATOM	7044	N	GLY C 143	53.938	26.779	48.673	1.00	23.99	N
ATOM	7045	CA	GLY C 143	52.826	26.407	47.816	1.00	26.66	C
ATOM	7046	C	GLY C 143	52.658	27.322	46.620	1.00	26.00	C
ATOM	7047	O	GLY C 143	51.563	27.416	46.059	1.00	25.20	O
ATOM	7048	N	LEU C 144	53.751	27.977	46.225	1.00	24.52	N
ATOM	7049	CA	LEU C 144	53.762	28.916	45.103	1.00	25.64	C
ATOM	7050	CB	LEU C 144	54.948	29.886	45.227	1.00	27.75	C
ATOM	7051	CG	LEU C 144	55.074	30.684	46.528	1.00	35.85	C
ATOM	7052	CD1	LEU C 144	56.283	31.612	46.459	1.00	40.38	C
ATOM	7053	CD2	LEU C 144	53.805	31.468	46.825	1.00	38.49	C
ATOM	7054	C	LEU C 144	53.785	28.206	43.747	1.00	26.31	C
ATOM	7055	O	LEU C 144	54.804	28.203	43.043	1.00	23.50	O
ATOM	7056	N	HIS C 145	52.630	27.666	43.364	1.00	21.64	N
ATOM	7057	CA	HIS C 145	52.535	26.670	42.298	1.00	18.96	C
ATOM	7058	CB	HIS C 145	51.280	25.794	42.496	1.00	20.31	C
ATOM	7059	CG	HIS C 145	49.984	26.553	42.479	1.00	23.25	C
ATOM	7060	ND1	HIS C 145	48.759	25.918	42.422	1.00	23.18	N
ATOM	7061	CE1	HIS C 145	47.796	26.822	42.419	1.00	22.75	C
ATOM	7062	NE2	HIS C 145	48.348	28.021	42.484	1.00	24.72	N
ATOM	7063	CD2	HIS C 145	49.716	27.881	42.525	1.00	23.02	C
ATOM	7064	C	HIS C 145	52.631	27.132	40.832	1.00	20.46	C
ATOM	7065	O	HIS C 145	52.743	26.285	39.946	1.00	22.21	O
ATOM	7066	N	HIS C 146	52.588	28.441	40.576	1.00	18.47	N
ATOM	7067	CA	HIS C 146	52.614	28.965	39.205	1.00	20.41	C
ATOM	7068	CB	HIS C 146	51.785	30.253	39.096	1.00	22.31	C
ATOM	7069	CG	HIS C 146	50.331	30.076	39.401	1.00	24.49	C
ATOM	7070	ND1	HIS C 146	49.523	29.204	38.702	1.00	23.92	N
ATOM	7071	CE1	HIS C 146	48.294	29.264	39.188	1.00	26.49	C
ATOM	7072	NE2	HIS C 146	48.276	30.150	40.167	1.00	26.31	N
ATOM	7073	CD2	HIS C 146	49.537	30.672	40.322	1.00	24.97	C
ATOM	7074	C	HIS C 146	53.999	29.276	38.640	1.00	19.68	C
ATOM	7075	O	HIS C 146	54.142	29.434	37.427	1.00	20.51	O
ATOM	7076	N	ALA C 147	54.996	29.434	39.505	1.00	21.32	N
ATOM	7077	CA	ALA C 147	56.327	29.842	39.047	1.00	20.73	C
ATOM	7078	CB	ALA C 147	57.267	30.042	40.235	1.00	21.40	C
ATOM	7079	C	ALA C 147	56.892	28.809	38.066	1.00	19.28	C
ATOM	7080	O	ALA C 147	56.789	27.602	38.299	1.00	18.06	O
ATOM	7081	N	LYS C 148	57.469	29.296	36.969	1.00	19.46	N
ATOM	7082	CA	LYS C 148	58.047	28.443	35.933	1.00	18.89	C
ATOM	7083	CB	LYS C 148	57.542	28.866	34.546	1.00	20.97	C
ATOM	7084	CG	LYS C 148	56.034	29.121	34.455	1.00	27.24	C
ATOM	7085	CD	LYS C 148	55.232	27.834	34.499	1.00	31.57	C
ATOM	7086	CE	LYS C 148	53.781	28.066	34.081	1.00	36.57	C
ATOM	7087	NZ	LYS C 148	53.070	29.056	34.960	1.00	39.16	N
ATOM	7088	C	LYS C 148	59.573	28.492	35.962	1.00	18.37	C
ATOM	7089	O	LYS C 148	60.159	29.264	36.718	1.00	18.13	O
ATOM	7090	N	LYS C 149	60.208	27.681	35.118	1.00	19.40	N
ATOM	7091	CA	LYS C 149	61.669	27.576	35.084	1.00	19.45	C
ATOM	7092	CB	LYS C 149	62.111	26.666	33.928	1.00	23.91	C
ATOM	7093	CG	LYS C 149	62.362	25.223	34.333	1.00	36.30	C
ATOM	7094	CD	LYS C 149	62.668	24.339	33.122	1.00	40.69	C
ATOM	7095	CE	LYS C 149	62.204	22.902	33.336	1.00	45.14	C
ATOM	7096	NZ	LYS C 149	60.717	22.733	33.194	1.00	46.77	N
ATOM	7097	C	LYS C 149	62.344	28.942	34.950	1.00	18.17	C
ATOM	7098	O	LYS C 149	63.300	29.247	35.666	1.00	19.54	O
ATOM	7099	N	SER C 150	61.826	29.758	34.038	1.00	17.12	N
ATOM	7100	CA	SER C 150	62.432	31.047	33.710	1.00	20.63	C
ATOM	7101	CB	ASER C 150	63.107	30.968	32.340	0.65	19.05	C
ATOM	7102	OG	ASER C 150	64.257	30.150	32.397	0.65	29.39	O
ATOM	7103	C	SER C 150	61.384	32.147	33.679	1.00	22.27	C

ATOM	7104	O	SER	C	150	61.489	33.087	32.891	1.00	23.87	O
ATOM	7105	N	GLU	C	151	60.363	32.027	34.520	1.00	21.40	N
ATOM	7106	CA	GLU	C	151	59.252	32.974	34.479	1.00	26.55	C
ATOM	7107	CB	GLU	C	151	58.276	32.599	33.353	1.00	32.51	C
ATOM	7108	CG	GLU	C	151	57.410	33.756	32.883	1.00	44.26	C
ATOM	7109	CD	GLU	C	151	56.455	33.393	31.757	1.00	49.04	C
ATOM	7110	OE1	GLU	C	151	55.882	32.280	31.774	1.00	48.71	O
ATOM	7111	OE2	GLU	C	151	56.267	34.239	30.856	1.00	53.70	O
ATOM	7112	C	GLU	C	151	58.499	33.050	35.797	1.00	24.66	C
ATOM	7113	O	GLU	C	151	58.159	32.021	36.389	1.00	24.54	O
ATOM	7114	N	ALA	C	152	58.247	34.278	36.248	1.00	18.78	N
ATOM	7115	CA	ALA	C	152	57.301	34.520	37.327	1.00	20.44	C
ATOM	7116	CB	ALA	C	152	57.534	35.882	37.955	1.00	20.98	C
ATOM	7117	C	ALA	C	152	55.896	34.442	36.750	1.00	20.79	C
ATOM	7118	O	ALA	C	152	55.676	34.766	35.581	1.00	24.62	O
ATOM	7119	N	SER	C	153	54.947	34.021	37.577	1.00	23.32	N
ATOM	7120	CA	SER	C	153	53.552	33.922	37.170	1.00	25.63	C
ATOM	7121	CB	SER	C	153	53.334	32.651	36.342	1.00	26.95	C
ATOM	7122	OG	SER	C	153	52.001	32.580	35.875	1.00	27.37	O
ATOM	7123	C	SER	C	153	52.646	33.891	38.390	1.00	21.59	C
ATOM	7124	O	SER	C	153	52.959	33.230	39.379	1.00	18.67	O
ATOM	7125	N	GLY	C	154	51.533	34.619	38.322	1.00	23.59	N
ATOM	7126	CA	GLY	C	154	50.480	34.521	39.322	1.00	21.52	C
ATOM	7127	C	GLY	C	154	50.902	34.715	40.764	1.00	21.35	C
ATOM	7128	O	GLY	C	154	50.499	33.946	41.648	1.00	22.74	O
ATOM	7129	N	PHE	C	155	51.710	35.749	40.996	1.00	19.72	N
ATOM	7130	CA	PHE	C	155	52.200	36.112	42.332	1.00	21.41	C
ATOM	7131	CB	PHE	C	155	51.057	36.165	43.368	1.00	22.72	C
ATOM	7132	CG	PHE	C	155	49.789	36.849	42.881	1.00	23.83	C
ATOM	7133	CD1	PHE	C	155	49.819	37.815	41.875	1.00	29.94	C
ATOM	7134	CE1	PHE	C	155	48.644	38.445	41.439	1.00	29.72	C
ATOM	7135	CZ	PHE	C	155	47.429	38.111	42.020	1.00	29.34	C
ATOM	7136	CE2	PHE	C	155	47.383	37.152	43.028	1.00	27.12	C
ATOM	7137	CD2	PHE	C	155	48.562	36.527	43.456	1.00	25.61	C
ATOM	7138	C	PHE	C	155	53.328	35.197	42.846	1.00	20.61	C
ATOM	7139	O	PHE	C	155	53.774	35.339	43.988	1.00	23.49	O
ATOM	7140	N	CYS	C	156	53.773	34.259	42.008	1.00	20.32	N
ATOM	7141	CA	CYS	C	156	54.789	33.272	42.383	1.00	19.06	C
ATOM	7142	CB	CYS	C	156	54.324	31.854	42.043	1.00	20.69	C
ATOM	7143	SG	CYS	C	156	52.701	31.375	42.676	1.00	26.99	S
ATOM	7144	C	CYS	C	156	56.074	33.541	41.605	1.00	20.50	C
ATOM	7145	O	CYS	C	156	56.025	33.794	40.399	1.00	22.61	O
ATOM	7146	N	TYR	C	157	57.214	33.476	42.288	1.00	17.82	N
ATOM	7147	CA	TYR	C	157	58.492	33.766	41.644	1.00	18.77	C
ATOM	7148	CB	TYR	C	157	59.219	34.913	42.352	1.00	21.59	C
ATOM	7149	CG	TYR	C	157	58.407	36.183	42.469	1.00	22.70	C
ATOM	7150	CD1	TYR	C	157	57.465	36.331	43.490	1.00	25.11	C
ATOM	7151	CE1	TYR	C	157	56.710	37.485	43.610	1.00	23.29	C
ATOM	7152	CZ	TYR	C	157	56.893	38.516	42.708	1.00	23.76	C
ATOM	7153	OH	TYR	C	157	56.135	39.653	42.854	1.00	26.80	O
ATOM	7154	CE2	TYR	C	157	57.821	38.404	41.678	1.00	26.50	C
ATOM	7155	CD2	TYR	C	157	58.576	37.233	41.564	1.00	22.38	C
ATOM	7156	C	TYR	C	157	59.379	32.535	41.604	1.00	18.48	C
ATOM	7157	O	TYR	C	157	60.017	32.251	40.589	1.00	21.97	O
ATOM	7158	N	VAL	C	158	59.418	31.810	42.714	1.00	18.43	N
ATOM	7159	CA	VAL	C	158	60.221	30.603	42.812	1.00	15.87	C
ATOM	7160	CB	VAL	C	158	61.361	30.754	43.861	1.00	19.22	C
ATOM	7161	CG1	VAL	C	158	62.085	29.423	44.111	1.00	15.30	C
ATOM	7162	CG2	VAL	C	158	62.360	31.817	43.410	1.00	18.32	C
ATOM	7163	C	VAL	C	158	59.278	29.473	43.175	1.00	20.43	C
ATOM	7164	O	VAL	C	158	58.430	29.615	44.063	1.00	18.42	O
ATOM	7165	N	ASN	C	159	59.408	28.361	42.464	1.00	19.80	N
ATOM	7166	CA	ASN	C	159	58.514	27.248	42.695	1.00	20.96	C

ATOM	7167	CB	ASN	C	159	58.238	26.459	41.414	1.00	20.79	C
ATOM	7168	CG	ASN	C	159	56.934	25.692	41.493	1.00	19.60	C
ATOM	7169	OD1	ASN	C	159	56.692	24.968	42.464	1.00	15.97	O
ATOM	7170	ND2	ASN	C	159	56.077	25.865	40.494	1.00	17.80	N
ATOM	7171	C	ASN	C	159	59.029	26.361	43.805	1.00	21.03	C
ATOM	7172	O	ASN	C	159	59.743	25.387	43.560	1.00	17.22	O
ATOM	7173	N	ASP	C	160	58.658	26.712	45.036	1.00	17.22	N
ATOM	7174	CA	ASP	C	160	59.088	25.958	46.211	1.00	21.09	C
ATOM	7175	CB	ASP	C	160	58.613	26.636	47.498	1.00	22.15	C
ATOM	7176	CG	ASP	C	160	57.100	26.574	47.671	1.00	28.43	C
ATOM	7177	OD1	ASP	C	160	56.377	27.229	46.882	1.00	28.06	O
ATOM	7178	OD2	ASP	C	160	56.551	25.892	48.564	1.00	27.27	O
ATOM	7179	C	ASP	C	160	58.611	24.509	46.175	1.00	20.02	C
ATOM	7180	O	ASP	C	160	59.314	23.623	46.647	1.00	19.53	O
ATOM	7181	N	ILE	C	161	57.419	24.278	45.621	1.00	19.53	N
ATOM	7182	CA	ILE	C	161	56.847	22.925	45.547	1.00	20.29	C
ATOM	7183	CB	ILE	C	161	55.422	22.951	44.935	1.00	22.80	C
ATOM	7184	CG1	ILE	C	161	54.494	23.883	45.721	1.00	25.27	C
ATOM	7185	CD1	ILE	C	161	53.150	24.103	45.071	1.00	25.18	C
ATOM	7186	CG2	ILE	C	161	54.838	21.538	44.872	1.00	20.62	C
ATOM	7187	C	ILE	C	161	57.741	21.999	44.715	1.00	17.29	C
ATOM	7188	O	ILE	C	161	58.032	20.871	45.110	1.00	17.46	O
ATOM	7189	N	VAL	C	162	58.147	22.480	43.545	1.00	17.09	N
ATOM	7190	CA	VAL	C	162	58.985	21.694	42.643	1.00	15.53	C
ATOM	7191	CB	VAL	C	162	59.205	22.437	41.302	1.00	16.77	C
ATOM	7192	CG1	VAL	C	162	60.308	21.780	40.475	1.00	16.99	C
ATOM	7193	CG2	VAL	C	162	57.896	22.485	40.499	1.00	18.38	C
ATOM	7194	C	VAL	C	162	60.305	21.368	43.333	1.00	15.13	C
ATOM	7195	O	VAL	C	162	60.775	20.224	43.306	1.00	17.01	O
ATOM	7196	N	LEU	C	163	60.891	22.373	43.979	1.00	17.06	N
ATOM	7197	CA	LEU	C	163	62.161	22.187	44.683	1.00	16.90	C
ATOM	7198	CB	LEU	C	163	62.719	23.537	45.156	1.00	16.69	C
ATOM	7199	CG	LEU	C	163	63.236	24.423	44.012	1.00	22.03	C
ATOM	7200	CD1	LEU	C	163	63.370	25.875	44.474	1.00	21.01	C
ATOM	7201	CD2	LEU	C	163	64.575	23.910	43.430	1.00	19.55	C
ATOM	7202	C	LEU	C	163	62.049	21.204	45.848	1.00	18.62	C
ATOM	7203	O	LEU	C	163	62.964	20.409	46.092	1.00	18.87	O
ATOM	7204	N	ALA	C	164	60.919	21.240	46.547	1.00	18.00	N
ATOM	7205	CA	ALA	C	164	60.683	20.308	47.652	1.00	20.50	C
ATOM	7206	CB	ALA	C	164	59.492	20.749	48.479	1.00	19.04	C
ATOM	7207	C	ALA	C	164	60.478	18.891	47.124	1.00	19.09	C
ATOM	7208	O	ALA	C	164	60.988	17.925	47.706	1.00	18.67	O
ATOM	7209	N	ILE	C	165	59.733	18.775	46.025	1.00	21.34	N
ATOM	7210	CA	ILE	C	165	59.514	17.478	45.384	1.00	18.18	C
ATOM	7211	CB	ILE	C	165	58.423	17.562	44.278	1.00	18.13	C
ATOM	7212	CG1	ILE	C	165	57.049	17.820	44.908	1.00	18.87	C
ATOM	7213	CD1	ILE	C	165	55.939	18.056	43.917	1.00	18.64	C
ATOM	7214	CG2	ILE	C	165	58.384	16.278	43.450	1.00	18.97	C
ATOM	7215	C	ILE	C	165	60.834	16.872	44.874	1.00	20.83	C
ATOM	7216	O	ILE	C	165	61.080	15.674	45.056	1.00	22.41	O
ATOM	7217	N	LEU	C	166	61.686	17.694	44.259	1.00	19.04	N
ATOM	7218	CA	LEU	C	166	63.016	17.235	43.848	1.00	21.63	C
ATOM	7219	CB	LEU	C	166	63.803	18.352	43.153	1.00	22.55	C
ATOM	7220	CG	LEU	C	166	63.344	18.765	41.746	1.00	23.96	C
ATOM	7221	CD1	LEU	C	166	64.204	19.921	41.254	1.00	24.61	C
ATOM	7222	CD2	LEU	C	166	63.378	17.590	40.743	1.00	25.20	C
ATOM	7223	C	LEU	C	166	63.813	16.672	45.032	1.00	23.98	C
ATOM	7224	O	LEU	C	166	64.500	15.653	44.899	1.00	21.11	O
ATOM	7225	N	GLU	C	167	63.707	17.328	46.187	1.00	23.51	N
ATOM	7226	CA	GLU	C	167	64.327	16.823	47.407	1.00	24.54	C
ATOM	7227	CB	GLU	C	167	64.239	17.854	48.535	1.00	30.09	C
ATOM	7228	CG	GLU	C	167	65.056	17.505	49.774	1.00	37.28	C
ATOM	7229	CD	GLU	C	167	66.535	17.282	49.482	1.00	43.46	C

ATOM	7230	OE1	GLU	C	167	67.101	16.305	50.020	1.00	46.60	O
ATOM	7231	OE2	GLU	C	167	67.132	18.076	48.721	1.00	46.28	O
ATOM	7232	C	GLU	C	167	63.722	15.482	47.837	1.00	24.61	C
ATOM	7233	O	GLU	C	167	64.459	14.536	48.132	1.00	22.10	O
ATOM	7234	N	LEU	C	168	62.391	15.403	47.856	1.00	19.17	N
ATOM	7235	CA	LEU	C	168	61.679	14.162	48.182	1.00	20.32	C
ATOM	7236	CB	LEU	C	168	60.159	14.383	48.136	1.00	21.36	C
ATOM	7237	CG	LEU	C	168	59.552	15.191	49.292	1.00	20.90	C
ATOM	7238	CD1	LEU	C	168	58.072	15.441	49.067	1.00	21.33	C
ATOM	7239	CD2	LEU	C	168	59.780	14.507	50.640	1.00	20.43	C
ATOM	7240	C	LEU	C	168	62.056	12.996	47.263	1.00	23.10	C
ATOM	7241	O	LEU	C	168	62.161	11.847	47.707	1.00	21.44	O
ATOM	7242	N	LEU	C	169	62.275	13.304	45.989	1.00	19.06	N
ATOM	7243	CA	LEU	C	169	62.612	12.291	44.989	1.00	21.14	C
ATOM	7244	CB	LEU	C	169	62.502	12.874	43.574	1.00	19.75	C
ATOM	7245	CG	LEU	C	169	61.076	13.103	43.057	1.00	21.25	C
ATOM	7246	CD1	LEU	C	169	61.087	14.001	41.821	1.00	21.38	C
ATOM	7247	CD2	LEU	C	169	60.355	11.779	42.763	1.00	23.11	C
ATOM	7248	C	LEU	C	169	63.977	11.627	45.202	1.00	23.12	C
ATOM	7249	O	LEU	C	169	64.292	10.619	44.563	1.00	24.62	O
ATOM	7250	N	LYS	C	170	64.782	12.184	46.104	1.00	24.79	N
ATOM	7251	CA	LYS	C	170	66.033	11.538	46.503	1.00	26.97	C
ATOM	7252	CB	LYS	C	170	66.912	12.496	47.308	1.00	29.47	C
ATOM	7253	CG	LYS	C	170	67.710	13.450	46.441	1.00	33.54	C
ATOM	7254	CD	LYS	C	170	67.842	14.810	47.085	1.00	39.30	C
ATOM	7255	CE	LYS	C	170	69.212	15.413	46.822	1.00	39.75	C
ATOM	7256	NZ	LYS	C	170	69.660	16.261	47.965	1.00	41.25	N
ATOM	7257	C	LYS	C	170	65.771	10.243	47.286	1.00	28.83	C
ATOM	7258	O	LYS	C	170	66.535	9.282	47.178	1.00	29.30	O
ATOM	7259	N	TYR	C	171	64.671	10.217	48.040	1.00	26.82	N
ATOM	7260	CA	TYR	C	171	64.354	9.111	48.944	1.00	29.54	C
ATOM	7261	CB	TYR	C	171	64.240	9.630	50.383	1.00	31.39	C
ATOM	7262	CG	TYR	C	171	65.560	9.956	51.043	1.00	36.26	C
ATOM	7263	CD1	TYR	C	171	66.085	9.126	52.032	1.00	38.59	C
ATOM	7264	CE1	TYR	C	171	67.293	9.421	52.646	1.00	41.65	C
ATOM	7265	CZ	TYR	C	171	67.993	10.559	52.274	1.00	42.92	C
ATOM	7266	OH	TYR	C	171	69.192	10.847	52.887	1.00	47.03	O
ATOM	7267	CE2	TYR	C	171	67.495	11.403	51.296	1.00	38.03	C
ATOM	7268	CD2	TYR	C	171	66.283	11.099	50.687	1.00	36.98	C
ATOM	7269	C	TYR	C	171	63.062	8.392	48.570	1.00	30.77	C
ATOM	7270	O	TYR	C	171	62.777	7.304	49.075	1.00	33.96	O
ATOM	7271	N	HIS	C	172	62.273	9.006	47.697	1.00	27.99	N
ATOM	7272	CA	HIS	C	172	60.968	8.462	47.344	1.00	26.92	C
ATOM	7273	CB	HIS	C	172	59.855	9.404	47.806	1.00	27.87	C
ATOM	7274	CG	HIS	C	172	59.863	9.644	49.282	1.00	27.80	C
ATOM	7275	ND1	HIS	C	172	60.607	10.644	49.870	1.00	29.50	N
ATOM	7276	CE1	HIS	C	172	60.435	10.607	51.179	1.00	28.94	C
ATOM	7277	NE2	HIS	C	172	59.621	9.606	51.463	1.00	30.15	N
ATOM	7278	CD2	HIS	C	172	59.258	8.980	50.295	1.00	29.13	C
ATOM	7279	C	HIS	C	172	60.866	8.167	45.862	1.00	25.54	C
ATOM	7280	O	HIS	C	172	61.093	9.044	45.028	1.00	23.17	O
ATOM	7281	N	GLN	C	173	60.538	6.917	45.543	1.00	23.96	N
ATOM	7282	CA	GLN	C	173	60.396	6.485	44.158	1.00	24.80	C
ATOM	7283	CB	BGLN	C	173	60.174	4.969	44.091	0.35	28.49	C
ATOM	7284	CB	AGLN	C	173	60.193	4.963	44.083	0.65	31.75	C
ATOM	7285	CG	BGLN	C	173	61.442	4.146	44.262	0.35	29.43	C
ATOM	7286	CG	AGLN	C	173	60.019	4.399	42.666	0.65	34.92	C
ATOM	7287	CD	BGLN	C	173	61.167	2.754	44.804	0.35	32.85	C
ATOM	7288	CD	AGLN	C	173	61.236	4.610	41.770	0.65	39.62	C
ATOM	7289	OE1BGLN	C	173	60.952	1.817	44.037	0.35	33.02	O	
ATOM	7290	OE1AGLN	C	173	61.093	5.000	40.610	0.65	40.62	O	
ATOM	7291	NE2BGLN	C	173	61.177	2.618	46.126	0.35	32.91	N	
ATOM	7292	NE2AGLN	C	173	62.428	4.346	42.301	0.65	41.63	N	

ATOM	7293	C	GLN	C	173	59.252	7.218	43.454	1.00	24.52	C
ATOM	7294	O	GLN	C	173	59.400	7.649	42.310	1.00	23.73	O
ATOM	7295	N	ARG	C	174	58.125	7.358	44.149	1.00	23.97	N
ATOM	7296	CA	ARG	C	174	56.923	7.972	43.595	1.00	24.56	C
ATOM	7297	CB	ARG	C	174	55.865	6.905	43.286	1.00	27.65	C
ATOM	7298	CG	ARG	C	174	56.122	6.124	41.993	1.00	31.90	C
ATOM	7299	CD	ARG	C	174	55.102	5.016	41.690	1.00	35.00	C
ATOM	7300	NE	ARG	C	174	54.816	4.186	42.860	1.00	39.03	N
ATOM	7301	CZ	ARG	C	174	55.580	3.182	43.283	1.00	41.28	C
ATOM	7302	NH1	ARG	C	174	55.229	2.502	44.366	1.00	40.68	N
ATOM	7303	NH2	ARG	C	174	56.692	2.853	42.632	1.00	39.36	N
ATOM	7304	C	ARG	C	174	56.363	9.010	44.561	1.00	26.31	C
ATOM	7305	O	ARG	C	174	56.145	8.723	45.744	1.00	28.75	O
ATOM	7306	N	VAL	C	175	56.151	10.224	44.056	1.00	23.11	N
ATOM	7307	CA	VAL	C	175	55.600	11.310	44.868	1.00	20.10	C
ATOM	7308	CB	VAL	C	175	56.612	12.494	45.020	1.00	22.50	C
ATOM	7309	CG1	VAL	C	175	55.996	13.655	45.783	1.00	22.30	C
ATOM	7310	CG2	VAL	C	175	57.888	12.038	45.724	1.00	21.59	C
ATOM	7311	C	VAL	C	175	54.289	11.792	44.254	1.00	19.28	C
ATOM	7312	O	VAL	C	175	54.199	12.011	43.043	1.00	22.33	O
ATOM	7313	N	LEU	C	176	53.268	11.933	45.092	1.00	19.18	N
ATOM	7314	CA	LEU	C	176	51.970	12.412	44.647	1.00	21.31	C
ATOM	7315	CB	LEU	C	176	50.854	11.541	45.234	1.00	20.22	C
ATOM	7316	CG	LEU	C	176	49.418	11.998	44.968	1.00	22.60	C
ATOM	7317	CD1	LEU	C	176	49.089	12.011	43.470	1.00	21.68	C
ATOM	7318	CD2	LEU	C	176	48.429	11.126	45.728	1.00	24.91	C
ATOM	7319	C	LEU	C	176	51.769	13.867	45.070	1.00	18.66	C
ATOM	7320	O	LEU	C	176	51.911	14.199	46.245	1.00	22.56	O
ATOM	7321	N	TYR	C	177	51.426	14.715	44.105	1.00	19.35	N
ATOM	7322	CA	TYR	C	177	51.124	16.120	44.366	1.00	20.12	C
ATOM	7323	CB	TYR	C	177	51.933	17.019	43.421	1.00	20.48	C
ATOM	7324	CG	TYR	C	177	51.546	18.481	43.489	1.00	20.06	C
ATOM	7325	CD1	TYR	C	177	51.893	19.258	44.595	1.00	20.96	C
ATOM	7326	CE1	TYR	C	177	51.533	20.589	44.674	1.00	21.74	C
ATOM	7327	CZ	TYR	C	177	50.828	21.172	43.634	1.00	19.84	C
ATOM	7328	OH	TYR	C	177	50.484	22.502	43.719	1.00	20.42	O
ATOM	7329	CE2	TYR	C	177	50.472	20.430	42.521	1.00	20.46	C
ATOM	7330	CD2	TYR	C	177	50.832	19.083	42.456	1.00	21.11	C
ATOM	7331	C	TYR	C	177	49.635	16.366	44.170	1.00	19.62	C
ATOM	7332	O	TYR	C	177	49.086	16.057	43.108	1.00	20.04	O
ATOM	7333	N	ILE	C	178	48.982	16.917	45.193	1.00	20.86	N
ATOM	7334	CA	ILE	C	178	47.552	17.233	45.124	1.00	21.59	C
ATOM	7335	CB	ILE	C	178	46.740	16.427	46.173	1.00	20.87	C
ATOM	7336	CG1	ILE	C	178	46.968	14.921	46.009	1.00	22.29	C
ATOM	7337	CD1	ILE	C	178	46.615	14.111	47.252	1.00	20.02	C
ATOM	7338	CG2	ILE	C	178	45.232	16.757	46.085	1.00	21.09	C
ATOM	7339	C	ILE	C	178	47.383	18.728	45.354	1.00	20.24	C
ATOM	7340	O	ILE	C	178	47.985	19.282	46.271	1.00	19.47	O
ATOM	7341	N	ASP	C	179	46.577	19.366	44.508	1.00	21.59	N
ATOM	7342	CA	ASP	C	179	46.439	20.819	44.484	1.00	22.34	C
ATOM	7343	CB	ASP	C	179	47.029	21.340	43.163	1.00	24.36	C
ATOM	7344	CG	ASP	C	179	47.327	22.832	43.182	1.00	28.02	C
ATOM	7345	OD1	ASP	C	179	46.457	23.623	43.601	1.00	25.23	O
ATOM	7346	OD2	ASP	C	179	48.398	23.314	42.750	1.00	26.56	O
ATOM	7347	C	ASP	C	179	44.962	21.220	44.610	1.00	24.49	C
ATOM	7348	O	ASP	C	179	44.191	21.048	43.659	1.00	21.23	O
ATOM	7349	N	ILE	C	180	44.576	21.770	45.765	1.00	21.97	N
ATOM	7350	CA	ILE	C	180	43.178	22.178	46.003	1.00	23.05	C
ATOM	7351	CB	ILE	C	180	42.582	21.514	47.278	1.00	23.12	C
ATOM	7352	CG1	ILE	C	180	43.287	21.999	48.552	1.00	23.80	C
ATOM	7353	CD1	ILE	C	180	42.602	21.563	49.840	1.00	24.48	C
ATOM	7354	CG2	ILE	C	180	42.621	19.995	47.156	1.00	22.97	C
ATOM	7355	C	ILE	C	180	42.964	23.696	45.999	1.00	27.03	C

ATOM	7356	O	ILE	C	180	41.877	24.194	46.326	1.00	24.86	O
ATOM	7357	N	ASP	C	181	44.016	24.421	45.623	1.00	24.47	N
ATOM	7358	CA	ASP	C	181	43.911	25.818	45.227	1.00	22.04	C
ATOM	7359	CB	ASP	C	181	45.274	26.273	44.700	1.00	22.18	C
ATOM	7360	CG	ASP	C	181	45.394	27.763	44.596	1.00	25.92	C
ATOM	7361	OD1	ASP	C	181	46.039	28.381	45.481	1.00	25.43	O
ATOM	7362	OD2	ASP	C	181	44.882	28.398	43.655	1.00	22.17	O
ATOM	7363	C	ASP	C	181	42.860	25.935	44.120	1.00	23.98	C
ATOM	7364	O	ASP	C	181	42.681	24.996	43.325	1.00	21.78	O
ATOM	7365	N	ILE	C	182	42.172	27.072	44.042	1.00	18.61	N
ATOM	7366	CA	ILE	C	182	41.178	27.263	42.985	1.00	19.52	C
ATOM	7367	CB	ILE	C	182	40.283	28.506	43.255	1.00	22.35	C
ATOM	7368	CG1	ILE	C	182	38.973	28.374	42.470	1.00	24.38	C
ATOM	7369	CD1	ILE	C	182	38.030	29.568	42.602	1.00	25.20	C
ATOM	7370	CG2	ILE	C	182	41.010	29.809	42.895	1.00	18.01	C
ATOM	7371	C	ILE	C	182	41.799	27.304	41.578	1.00	21.11	C
ATOM	7372	O	ILE	C	182	41.121	27.038	40.584	1.00	20.87	O
ATOM	7373	N	HIS	C	183	43.086	27.654	41.504	1.00	22.00	N
ATOM	7374	CA	HIS	C	183	43.792	27.773	40.230	1.00	21.81	C
ATOM	7375	CB	HIS	C	183	44.739	28.981	40.246	1.00	22.70	C
ATOM	7376	CG	HIS	C	183	44.052	30.280	40.530	1.00	20.36	C
ATOM	7377	ND1	HIS	C	183	44.109	30.901	41.761	1.00	20.70	N
ATOM	7378	CE1	HIS	C	183	43.408	32.022	41.715	1.00	22.77	C
ATOM	7379	NE2	HIS	C	183	42.909	32.154	40.499	1.00	23.39	N
ATOM	7380	CD2	HIS	C	183	43.300	31.079	39.738	1.00	22.59	C
ATOM	7381	C	HIS	C	183	44.573	26.504	39.918	1.00	20.26	C
ATOM	7382	O	HIS	C	183	44.987	25.770	40.827	1.00	23.33	O
ATOM	7383	N	HIS	C	184	44.762	26.237	38.630	1.00	20.73	N
ATOM	7384	CA	HIS	C	184	45.511	25.066	38.197	1.00	20.10	C
ATOM	7385	CB	HIS	C	184	45.386	24.894	36.685	1.00	21.04	C
ATOM	7386	CG	HIS	C	184	46.244	23.803	36.129	1.00	21.66	C
ATOM	7387	ND1	HIS	C	184	47.186	24.025	35.151	1.00	22.38	N
ATOM	7388	CE1	HIS	C	184	47.789	22.886	34.855	1.00	25.95	C
ATOM	7389	NE2	HIS	C	184	47.276	21.935	35.616	1.00	23.89	N
ATOM	7390	CD2	HIS	C	184	46.310	22.483	36.424	1.00	24.26	C
ATOM	7391	C	HIS	C	184	46.983	25.231	38.585	1.00	20.57	C
ATOM	7392	O	HIS	C	184	47.565	26.291	38.366	1.00	22.12	O
ATOM	7393	N	GLY	C	185	47.568	24.183	39.162	1.00	20.01	N
ATOM	7394	CA	GLY	C	185	48.981	24.189	39.524	1.00	19.93	C
ATOM	7395	C	GLY	C	185	49.862	23.943	38.313	1.00	18.69	C
ATOM	7396	O	GLY	C	185	50.513	22.905	38.220	1.00	22.24	O
ATOM	7397	N	ASP	C	186	49.865	24.895	37.387	1.00	21.46	N
ATOM	7398	CA	ASP	C	186	50.527	24.729	36.098	1.00	22.12	C
ATOM	7399	CB	ASP	C	186	50.112	25.829	35.110	1.00	23.90	C
ATOM	7400	CG	ASP	C	186	50.474	27.225	35.587	1.00	26.98	C
ATOM	7401	OD1	ASP	C	186	50.590	28.125	34.726	1.00	29.01	O
ATOM	7402	OD2	ASP	C	186	50.653	27.518	36.789	1.00	27.06	O
ATOM	7403	C	ASP	C	186	52.051	24.622	36.191	1.00	22.36	C
ATOM	7404	O	ASP	C	186	52.650	23.863	35.441	1.00	20.33	O
ATOM	7405	N	GLY	C	187	52.669	25.377	37.099	1.00	20.83	N
ATOM	7406	CA	GLY	C	187	54.119	25.305	37.285	1.00	17.69	C
ATOM	7407	C	GLY	C	187	54.596	23.932	37.736	1.00	19.92	C
ATOM	7408	O	GLY	C	187	55.617	23.432	37.268	1.00	19.79	O
ATOM	7409	N	VAL	C	188	53.853	23.316	38.648	1.00	17.70	N
ATOM	7410	CA	VAL	C	188	54.210	21.988	39.154	1.00	17.26	C
ATOM	7411	CB	VAL	C	188	53.459	21.657	40.467	1.00	18.34	C
ATOM	7412	CG1	VAL	C	188	53.896	20.297	41.026	1.00	16.90	C
ATOM	7413	CG2	VAL	C	188	53.696	22.770	41.503	1.00	16.87	C
ATOM	7414	C	VAL	C	188	53.957	20.919	38.091	1.00	20.99	C
ATOM	7415	O	VAL	C	188	54.804	20.050	37.859	1.00	21.21	O
ATOM	7416	N	GLU	C	189	52.794	20.995	37.449	1.00	19.83	N
ATOM	7417	CA	GLU	C	189	52.448	20.066	36.380	1.00	22.49	C
ATOM	7418	CB	GLU	C	189	51.053	20.365	35.835	1.00	24.00	C

ATOM	7419	CG	GLU	C	189	50.635	19.464	34.686	1.00	26.09	C
ATOM	7420	CD	GLU	C	189	49.317	19.889	34.077	1.00	30.16	C
ATOM	7421	OE1	GLU	C	189	48.263	19.571	34.669	1.00	31.79	O
ATOM	7422	OE2	GLU	C	189	49.340	20.548	33.017	1.00	29.94	O
ATOM	7423	C	GLU	C	189	53.479	20.101	35.248	1.00	21.81	C
ATOM	7424	O	GLU	C	189	53.882	19.054	34.752	1.00	22.91	O
ATOM	7425	N	GLU	C	190	53.905	21.303	34.862	1.00	21.62	N
ATOM	7426	CA	GLU	C	190	54.895	21.466	33.798	1.00	25.08	C
ATOM	7427	CB	GLU	C	190	55.070	22.945	33.441	1.00	28.29	C
ATOM	7428	CG	GLU	C	190	55.864	23.188	32.167	1.00	37.14	C
ATOM	7429	CD	GLU	C	190	56.179	24.657	31.938	1.00	42.38	C
ATOM	7430	OE1	GLU	C	190	56.608	25.338	32.892	1.00	42.50	O
ATOM	7431	OE2	GLU	C	190	56.004	25.129	30.794	1.00	48.28	O
ATOM	7432	C	GLU	C	190	56.243	20.846	34.180	1.00	23.96	C
ATOM	7433	O	GLU	C	190	56.877	20.174	33.359	1.00	22.70	O
ATOM	7434	N	ALA	C	191	56.671	21.051	35.424	1.00	20.50	N
ATOM	7435	CA	ALA	C	191	57.964	20.523	35.869	1.00	18.25	C
ATOM	7436	CB	ALA	C	191	58.245	20.922	37.302	1.00	20.41	C
ATOM	7437	C	ALA	C	191	58.012	19.009	35.741	1.00	19.75	C
ATOM	7438	O	ALA	C	191	59.049	18.450	35.393	1.00	19.34	O
ATOM	7439	N	PHE	C	192	56.887	18.353	36.025	1.00	15.16	N
ATOM	7440	CA	PHE	C	192	56.869	16.893	36.100	1.00	17.47	C
ATOM	7441	CB	PHE	C	192	56.459	16.463	37.513	1.00	18.89	C
ATOM	7442	CG	PHE	C	192	57.383	16.978	38.582	1.00	19.86	C
ATOM	7443	CD1	PHE	C	192	56.942	17.918	39.506	1.00	22.01	C
ATOM	7444	CE1	PHE	C	192	57.803	18.405	40.497	1.00	19.42	C
ATOM	7445	CZ	PHE	C	192	59.128	17.964	40.540	1.00	17.93	C
ATOM	7446	CE2	PHE	C	192	59.579	17.026	39.613	1.00	19.47	C
ATOM	7447	CD2	PHE	C	192	58.710	16.547	38.639	1.00	21.48	C
ATOM	7448	C	PHE	C	192	55.995	16.234	35.032	1.00	17.79	C
ATOM	7449	O	PHE	C	192	55.563	15.092	35.192	1.00	17.44	O
ATOM	7450	N	TYR	C	193	55.756	16.957	33.943	1.00	19.66	N
ATOM	7451	CA	TYR	C	193	54.827	16.523	32.902	1.00	19.80	C
ATOM	7452	CB	TYR	C	193	54.645	17.611	31.839	1.00	20.13	C
ATOM	7453	CG	TYR	C	193	53.318	17.521	31.115	1.00	23.73	C
ATOM	7454	CD1	TYR	C	193	53.259	17.182	29.763	1.00	24.52	C
ATOM	7455	CE1	TYR	C	193	52.028	17.107	29.087	1.00	25.58	C
ATOM	7456	CZ	TYR	C	193	50.854	17.359	29.780	1.00	28.10	C
ATOM	7457	OH	TYR	C	193	49.637	17.273	29.142	1.00	30.86	O
ATOM	7458	CE2	TYR	C	193	50.890	17.687	31.130	1.00	29.89	C
ATOM	7459	CD2	TYR	C	193	52.119	17.764	31.788	1.00	24.79	C
ATOM	7460	C	TYR	C	193	55.238	15.215	32.236	1.00	21.50	C
ATOM	7461	O	TYR	C	193	54.374	14.418	31.864	1.00	19.68	O
ATOM	7462	N	THR	C	194	56.549	14.994	32.106	1.00	18.37	N
ATOM	7463	CA	THR	C	194	57.051	13.831	31.370	1.00	19.71	C
ATOM	7464	CB	THR	C	194	58.083	14.256	30.297	1.00	22.65	C
ATOM	7465	OG1	THR	C	194	59.179	14.934	30.925	1.00	24.40	O
ATOM	7466	CG2	THR	C	194	57.494	15.308	29.356	1.00	22.15	C
ATOM	7467	C	THR	C	194	57.627	12.738	32.272	1.00	20.22	C
ATOM	7468	O	THR	C	194	58.284	11.814	31.793	1.00	23.17	O
ATOM	7469	N	THR	C	195	57.375	12.830	33.572	1.00	20.54	N
ATOM	7470	CA	THR	C	195	57.814	11.767	34.485	1.00	21.02	C
ATOM	7471	CB	THR	C	195	58.861	12.275	35.521	1.00	22.46	C
ATOM	7472	OG1	THR	C	195	59.262	11.186	36.371	1.00	24.54	O
ATOM	7473	CG2	THR	C	195	58.238	13.270	36.506	1.00	20.85	C
ATOM	7474	C	THR	C	195	56.671	11.041	35.184	1.00	23.69	C
ATOM	7475	O	THR	C	195	55.670	11.652	35.574	1.00	21.32	O
ATOM	7476	N	ASP	C	196	56.846	9.733	35.356	1.00	22.82	N
ATOM	7477	CA	ASP	C	196	55.913	8.931	36.141	1.00	26.04	C
ATOM	7478	CB	ASP	C	196	55.760	7.510	35.563	1.00	29.12	C
ATOM	7479	CG	ASP	C	196	57.073	6.733	35.506	1.00	33.20	C
ATOM	7480	OD1	ASP	C	196	58.149	7.295	35.804	1.00	32.15	O
ATOM	7481	OD2	ASP	C	196	57.118	5.533	35.151	1.00	33.43	O

ATOM	7482	C	ASP	C	196	56.304	8.887	37.620	1.00	24.57	C
ATOM	7483	O	ASP	C	196	55.607	8.280	38.425	1.00	28.45	O
ATOM	7484	N	ARG	C	197	57.409	9.548	37.974	1.00	22.80	N
ATOM	7485	CA	ARG	C	197	57.870	9.587	39.365	1.00	22.28	C
ATOM	7486	CB	ARG	C	197	59.385	9.795	39.440	1.00	23.51	C
ATOM	7487	CG	ARG	C	197	60.187	8.622	38.900	1.00	27.97	C
ATOM	7488	CD	ARG	C	197	61.632	8.580	39.369	1.00	27.50	C
ATOM	7489	NE	ARG	C	197	61.751	8.651	40.826	1.00	25.31	N
ATOM	7490	CZ	ARG	C	197	62.841	9.051	41.471	1.00	26.93	C
ATOM	7491	NH1	ARG	C	197	62.854	9.087	42.797	1.00	26.76	N
ATOM	7492	NH2	ARG	C	197	63.921	9.415	40.793	1.00	25.61	N
ATOM	7493	C	ARG	C	197	57.157	10.644	40.194	1.00	19.00	C
ATOM	7494	O	ARG	C	197	57.282	10.667	41.417	1.00	20.82	O
ATOM	7495	N	VAL	C	198	56.427	11.527	39.522	1.00	19.16	N
ATOM	7496	CA	VAL	C	198	55.563	12.492	40.200	1.00	20.14	C
ATOM	7497	CB	VAL	C	198	56.149	13.927	40.187	1.00	19.38	C
ATOM	7498	CG1	VAL	C	198	55.249	14.888	40.985	1.00	20.86	C
ATOM	7499	CG2	VAL	C	198	57.559	13.941	40.746	1.00	17.19	C
ATOM	7500	C	VAL	C	198	54.226	12.485	39.482	1.00	19.04	C
ATOM	7501	O	VAL	C	198	54.175	12.677	38.271	1.00	21.59	O
ATOM	7502	N	MET	C	199	53.156	12.216	40.221	1.00	20.36	N
ATOM	7503	CA	MET	C	199	51.816	12.362	39.683	1.00	21.56	C
ATOM	7504	CB	MET	C	199	50.922	11.191	40.095	1.00	23.09	C
ATOM	7505	CG	MET	C	199	49.474	11.361	39.642	1.00	31.48	C
ATOM	7506	SD	MET	C	199	48.489	9.876	39.842	1.00	41.47	S
ATOM	7507	CE	MET	C	199	48.407	9.300	38.191	1.00	37.68	C
ATOM	7508	C	MET	C	199	51.244	13.662	40.229	1.00	21.55	C
ATOM	7509	O	MET	C	199	51.308	13.903	41.430	1.00	21.48	O
ATOM	7510	N	THR	C	200	50.710	14.496	39.345	1.00	22.67	N
ATOM	7511	CA	THR	C	200	50.096	15.759	39.758	1.00	22.30	C
ATOM	7512	CB	THR	C	200	50.714	16.952	38.985	1.00	21.81	C
ATOM	7513	OG1	THR	C	200	50.514	16.777	37.576	1.00	21.09	O
ATOM	7514	CG2	THR	C	200	52.248	16.950	39.128	1.00	19.11	C
ATOM	7515	C	THR	C	200	48.583	15.699	39.557	1.00	21.94	C
ATOM	7516	O	THR	C	200	48.105	15.328	38.485	1.00	26.33	O
ATOM	7517	N	VAL	C	201	47.839	16.059	40.601	1.00	18.95	N
ATOM	7518	CA	VAL	C	201	46.376	16.020	40.577	1.00	18.55	C
ATOM	7519	CB	VAL	C	201	45.798	14.944	41.539	1.00	22.30	C
ATOM	7520	CG1	VAL	C	201	44.264	14.853	41.417	1.00	22.13	C
ATOM	7521	CG2	VAL	C	201	46.437	13.572	41.294	1.00	21.04	C
ATOM	7522	C	VAL	C	201	45.885	17.398	40.997	1.00	19.73	C
ATOM	7523	O	VAL	C	201	46.105	17.812	42.136	1.00	20.42	O
ATOM	7524	N	SER	C	202	45.254	18.110	40.068	1.00	20.47	N
ATOM	7525	CA	SER	C	202	44.723	19.443	40.338	1.00	19.60	C
ATOM	7526	CB	SER	C	202	45.458	20.505	39.505	1.00	19.91	C
ATOM	7527	OG	SER	C	202	44.975	21.810	39.799	1.00	22.96	O
ATOM	7528	C	SER	C	202	43.214	19.549	40.109	1.00	21.19	C
ATOM	7529	O	SER	C	202	42.691	19.139	39.071	1.00	24.32	O
ATOM	7530	N	PHE	C	203	42.535	20.114	41.102	1.00	20.19	N
ATOM	7531	CA	PHE	C	203	41.126	20.492	41.009	1.00	21.78	C
ATOM	7532	CB	PHE	C	203	40.357	20.011	42.249	1.00	22.93	C
ATOM	7533	CG	PHE	C	203	40.509	18.542	42.531	1.00	23.37	C
ATOM	7534	CD1	PHE	C	203	41.570	18.073	43.308	1.00	24.86	C
ATOM	7535	CE1	PHE	C	203	41.722	16.710	43.568	1.00	25.25	C
ATOM	7536	CZ	PHE	C	203	40.795	15.798	43.052	1.00	25.99	C
ATOM	7537	CE2	PHE	C	203	39.728	16.256	42.279	1.00	24.65	C
ATOM	7538	CD2	PHE	C	203	39.589	17.626	42.026	1.00	26.81	C
ATOM	7539	C	PHE	C	203	41.093	22.010	40.936	1.00	20.23	C
ATOM	7540	O	PHE	C	203	41.683	22.683	41.791	1.00	19.02	O
ATOM	7541	N	HIS	C	204	40.439	22.559	39.919	1.00	20.36	N
ATOM	7542	CA	HIS	C	204	40.507	24.003	39.698	1.00	24.48	C
ATOM	7543	CB	HIS	C	204	41.829	24.359	39.017	1.00	22.06	C
ATOM	7544	CG	HIS	C	204	42.168	23.444	37.891	1.00	23.01	C

ATOM	7545	ND1	HIS	C	204	42.910	22.296	38.068	1.00	24.44	N
ATOM	7546	CE1	HIS	C	204	43.031	21.672	36.909	1.00	24.65	C
ATOM	7547	NE2	HIS	C	204	42.383	22.368	35.991	1.00	26.61	N
ATOM	7548	CD2	HIS	C	204	41.827	23.477	36.582	1.00	24.89	C
ATOM	7549	C	HIS	C	204	39.382	24.509	38.833	1.00	24.71	C
ATOM	7550	O	HIS	C	204	38.796	23.753	38.062	1.00	27.67	O
ATOM	7551	N	LYS	C	205	39.101	25.804	38.961	1.00	23.84	N
ATOM	7552	CA	LYS	C	205	38.231	26.516	38.037	1.00	28.98	C
ATOM	7553	CB	LYS	C	205	37.929	27.924	38.577	1.00	32.39	C
ATOM	7554	CG	LYS	C	205	37.406	28.923	37.551	1.00	42.28	C
ATOM	7555	CD	LYS	C	205	35.890	28.924	37.441	1.00	47.57	C
ATOM	7556	CE	LYS	C	205	35.447	29.586	36.138	1.00	51.03	C
ATOM	7557	NZ	LYS	C	205	34.409	28.786	35.424	1.00	54.84	N
ATOM	7558	C	LYS	C	205	38.897	26.573	36.662	1.00	29.80	C
ATOM	7559	O	LYS	C	205	40.119	26.750	36.558	1.00	28.05	O
ATOM	7560	N	TYR	C	206	38.097	26.406	35.611	1.00	28.06	N
ATOM	7561	CA	TYR	C	206	38.620	26.372	34.245	1.00	35.03	C
ATOM	7562	CB	TYR	C	206	38.830	24.921	33.795	1.00	36.34	C
ATOM	7563	CG	TYR	C	206	39.471	24.763	32.427	1.00	39.71	C
ATOM	7564	CD1	TYR	C	206	38.694	24.500	31.298	1.00	39.23	C
ATOM	7565	CE1	TYR	C	206	39.278	24.359	30.039	1.00	41.35	C
ATOM	7566	CZ	TYR	C	206	40.653	24.476	29.908	1.00	41.29	C
ATOM	7567	OH	TYR	C	206	41.233	24.338	28.669	1.00	41.80	O
ATOM	7568	CE2	TYR	C	206	41.447	24.739	31.013	1.00	38.87	C
ATOM	7569	CD2	TYR	C	206	40.855	24.876	32.265	1.00	37.49	C
ATOM	7570	C	TYR	C	206	37.708	27.105	33.265	1.00	40.96	C
ATOM	7571	O	TYR	C	206	36.481	27.029	33.366	1.00	41.60	O
ATOM	7572	N	GLY	C	207	38.326	27.798	32.310	1.00	45.36	N
ATOM	7573	CA	GLY	C	207	37.612	28.559	31.300	1.00	49.28	C
ATOM	7574	C	GLY	C	207	37.486	30.013	31.703	1.00	52.65	C
ATOM	7575	O	GLY	C	207	36.965	30.311	32.780	1.00	55.83	O
ATOM	7576	N	GLU	C	208	37.973	30.911	30.846	1.00	55.33	N
ATOM	7577	CA	GLU	C	208	37.932	32.357	31.099	1.00	58.48	C
ATOM	7578	CB	GLU	C	208	36.480	32.864	31.051	1.00	63.63	C
ATOM	7579	CG	GLU	C	208	36.307	34.299	30.568	1.00	68.24	C
ATOM	7580	CD	GLU	C	208	34.846	34.695	30.410	1.00	70.99	C
ATOM	7581	OE1	GLU	C	208	34.546	35.495	29.498	1.00	73.25	O
ATOM	7582	OE2	GLU	C	208	33.995	34.212	31.193	1.00	71.18	O
ATOM	7583	C	GLU	C	208	38.592	32.698	32.443	1.00	56.36	C
ATOM	7584	O	GLU	C	208	38.143	33.595	33.165	1.00	58.55	O
ATOM	7585	N	TYR	C	209	39.662	31.972	32.766	1.00	50.67	N
ATOM	7586	CA	TYR	C	209	40.272	32.036	34.089	1.00	45.52	C
ATOM	7587	CB	TYR	C	209	39.576	31.047	35.027	1.00	45.45	C
ATOM	7588	CG	TYR	C	209	39.410	31.531	36.451	1.00	48.28	C
ATOM	7589	CD1	TYR	C	209	40.101	30.919	37.499	1.00	48.18	C
ATOM	7590	CE1	TYR	C	209	39.942	31.350	38.815	1.00	49.59	C
ATOM	7591	CZ	TYR	C	209	39.085	32.408	39.090	1.00	51.54	C
ATOM	7592	OH	TYR	C	209	38.930	32.843	40.386	1.00	54.81	O
ATOM	7593	CE2	TYR	C	209	38.385	33.031	38.069	1.00	50.70	C
ATOM	7594	CD2	TYR	C	209	38.546	32.588	36.757	1.00	50.19	C
ATOM	7595	C	TYR	C	209	41.769	31.738	34.055	1.00	41.54	C
ATOM	7596	O	TYR	C	209	42.234	30.906	33.269	1.00	39.29	O
ATOM	7597	N	PHE	C	210	42.506	32.426	34.925	1.00	38.15	N
ATOM	7598	CA	PHE	C	210	43.939	32.219	35.117	1.00	31.21	C
ATOM	7599	CB	PHE	C	210	44.466	33.272	36.107	1.00	31.52	C
ATOM	7600	CG	PHE	C	210	45.950	33.234	36.303	1.00	29.64	C
ATOM	7601	CD1	PHE	C	210	46.509	32.512	37.353	1.00	28.18	C
ATOM	7602	CE1	PHE	C	210	47.895	32.464	37.522	1.00	25.87	C
ATOM	7603	CZ	PHE	C	210	48.719	33.142	36.640	1.00	26.92	C
ATOM	7604	CE2	PHE	C	210	48.172	33.863	35.595	1.00	29.06	C
ATOM	7605	CD2	PHE	C	210	46.794	33.908	35.430	1.00	28.56	C
ATOM	7606	C	PHE	C	210	44.199	30.805	35.655	1.00	32.37	C
ATOM	7607	O	PHE	C	210	43.411	30.308	36.464	1.00	33.33	O

ATOM	7608	N	PRO	C	211	45.284	30.148	35.228	1.00	29.69	N
ATOM	7609	CA	PRO	C	211	46.200	30.639	34.189	1.00	29.92	C
ATOM	7610	CB	PRO	C	211	47.541	30.049	34.628	1.00	30.95	C
ATOM	7611	CG	PRO	C	211	47.172	28.752	35.296	1.00	29.69	C
ATOM	7612	CD	PRO	C	211	45.736	28.860	35.782	1.00	29.37	C
ATOM	7613	C	PRO	C	211	45.874	30.160	32.770	1.00	33.32	C
ATOM	7614	O	PRO	C	211	46.710	30.319	31.874	1.00	36.53	O
ATOM	7615	N	GLY	C	212	44.699	29.570	32.571	1.00	29.52	N
ATOM	7616	CA	GLY	C	212	44.281	29.136	31.245	1.00	29.40	C
ATOM	7617	C	GLY	C	212	44.663	27.714	30.882	1.00	29.68	C
ATOM	7618	O	GLY	C	212	44.434	27.274	29.752	1.00	32.43	O
ATOM	7619	N	THR	C	213	45.225	26.991	31.845	1.00	27.08	N
ATOM	7620	CA	THR	C	213	45.702	25.629	31.626	1.00	26.81	C
ATOM	7621	CB	THR	C	213	47.197	25.538	31.969	1.00	27.96	C
ATOM	7622	OG1	THR	C	213	47.425	26.176	33.231	1.00	28.66	O
ATOM	7623	CG2	THR	C	213	48.039	26.359	30.995	1.00	31.02	C
ATOM	7624	C	THR	C	213	44.918	24.641	32.493	1.00	26.91	C
ATOM	7625	O	THR	C	213	44.010	25.031	33.230	1.00	27.78	O
ATOM	7626	N	GLY	C	214	45.276	23.364	32.412	1.00	22.31	N
ATOM	7627	CA	GLY	C	214	44.652	22.350	33.243	1.00	23.22	C
ATOM	7628	C	GLY	C	214	43.400	21.766	32.621	1.00	25.46	C
ATOM	7629	O	GLY	C	214	42.431	21.461	33.320	1.00	22.98	O
ATOM	7630	N	ASP	C	215	43.429	21.614	31.301	1.00	27.80	N
ATOM	7631	CA	ASP	C	215	42.369	20.937	30.566	1.00	29.96	C
ATOM	7632	CB	ASP	C	215	42.605	21.074	29.056	1.00	33.13	C
ATOM	7633	CG	ASP	C	215	41.358	20.781	28.238	1.00	37.94	C
ATOM	7634	OD1	ASP	C	215	41.081	19.596	27.961	1.00	42.21	O
ATOM	7635	OD2	ASP	C	215	40.594	21.672	27.827	1.00	43.89	O
ATOM	7636	C	ASP	C	215	42.332	19.463	30.958	1.00	29.48	C
ATOM	7637	O	ASP	C	215	43.358	18.873	31.300	1.00	28.38	O
ATOM	7638	N	LEU	C	216	41.138	18.882	30.913	1.00	30.02	N
ATOM	7639	CA	LEU	C	216	40.935	17.459	31.166	1.00	29.57	C
ATOM	7640	CB	LEU	C	216	39.450	17.107	30.953	1.00	33.16	C
ATOM	7641	CG	LEU	C	216	38.994	15.649	31.045	1.00	34.64	C
ATOM	7642	CD1	LEU	C	216	39.049	15.151	32.481	1.00	35.08	C
ATOM	7643	CD2	LEU	C	216	37.586	15.495	30.475	1.00	35.23	C
ATOM	7644	C	LEU	C	216	41.827	16.580	30.277	1.00	24.16	C
ATOM	7645	O	LEU	C	216	42.251	15.498	30.688	1.00	25.98	O
ATOM	7646	N	ARG	C	217	42.112	17.055	29.068	1.00	27.68	N
ATOM	7647	CA	ARG	C	217	42.907	16.299	28.098	1.00	31.90	C
ATOM	7648	CB	ARG	C	217	42.574	16.742	26.672	1.00	35.87	C
ATOM	7649	CG	ARG	C	217	41.268	16.164	26.146	1.00	42.66	C
ATOM	7650	CD	ARG	C	217	40.173	17.198	25.929	1.00	46.68	C
ATOM	7651	NE	ARG	C	217	38.837	16.623	26.093	1.00	50.27	N
ATOM	7652	CZ	ARG	C	217	37.743	17.317	26.401	1.00	52.47	C
ATOM	7653	NH1	ARG	C	217	37.804	18.632	26.589	1.00	53.82	N
ATOM	7654	NH2	ARG	C	217	36.578	16.694	26.523	1.00	53.61	N
ATOM	7655	C	ARG	C	217	44.416	16.385	28.345	1.00	34.37	C
ATOM	7656	O	ARG	C	217	45.195	15.661	27.713	1.00	32.26	O
ATOM	7657	N	ASP	C	218	44.823	17.266	29.259	1.00	31.81	N
ATOM	7658	CA	ASP	C	218	46.232	17.381	29.638	1.00	30.92	C
ATOM	7659	CB	ASP	C	218	46.539	18.771	30.206	1.00	29.08	C
ATOM	7660	CG	ASP	C	218	46.207	19.891	29.232	1.00	36.38	C
ATOM	7661	OD1	ASP	C	218	45.987	21.035	29.693	1.00	35.31	O
ATOM	7662	OD2	ASP	C	218	46.137	19.728	27.991	1.00	36.55	O
ATOM	7663	C	ASP	C	218	46.580	16.278	30.637	1.00	28.51	C
ATOM	7664	O	ASP	C	218	46.352	16.408	31.841	1.00	28.99	O
ATOM	7665	N	ILE	C	219	47.115	15.178	30.118	1.00	23.44	N
ATOM	7666	CA	ILE	C	219	47.295	13.964	30.906	1.00	23.50	C
ATOM	7667	CB	ILE	C	219	46.538	12.772	30.250	1.00	27.96	C
ATOM	7668	CG1	ILE	C	219	47.015	12.552	28.807	1.00	30.42	C
ATOM	7669	CD1	ILE	C	219	46.830	11.137	28.293	1.00	35.22	C
ATOM	7670	CG2	ILE	C	219	45.020	13.007	30.297	1.00	32.60	C

ATOM	7671	C	ILE	C	219	48.759	13.603	31.122	1.00	19.96	C
ATOM	7672	O	ILE	C	219	49.060	12.582	31.731	1.00	21.29	O
ATOM	7673	N	GLY	C	220	49.670	14.442	30.637	1.00	21.18	N
ATOM	7674	CA	GLY	C	220	51.091	14.133	30.727	1.00	19.90	C
ATOM	7675	C	GLY	C	220	51.600	13.600	29.405	1.00	21.84	C
ATOM	7676	O	GLY	C	220	50.811	13.322	28.497	1.00	21.54	O
ATOM	7677	N	ALA	C	221	52.918	13.456	29.291	1.00	22.69	N
ATOM	7678	CA	ALA	C	221	53.532	12.956	28.058	1.00	25.94	C
ATOM	7679	CB	ALA	C	221	53.972	14.120	27.175	1.00	24.79	C
ATOM	7680	C	ALA	C	221	54.706	12.031	28.360	1.00	21.90	C
ATOM	7681	O	ALA	C	221	55.261	12.059	29.460	1.00	22.78	O
ATOM	7682	N	GLY	C	222	55.078	11.211	27.381	1.00	21.92	N
ATOM	7683	CA	GLY	C	222	56.167	10.260	27.541	1.00	21.73	C
ATOM	7684	C	GLY	C	222	55.887	9.276	28.656	1.00	22.68	C
ATOM	7685	O	GLY	C	222	54.761	8.796	28.792	1.00	23.34	O
ATOM	7686	N	LYS	C	223	56.904	8.991	29.468	1.00	21.97	N
ATOM	7687	CA	LYS	C	223	56.735	8.139	30.646	1.00	27.37	C
ATOM	7688	CB	LYS	C	223	58.062	7.986	31.399	1.00	33.27	C
ATOM	7689	CG	LYS	C	223	59.116	7.165	30.660	1.00	41.30	C
ATOM	7690	CD	LYS	C	223	60.277	6.795	31.574	1.00	45.09	C
ATOM	7691	CE	LYS	C	223	61.581	6.676	30.796	1.00	50.54	C
ATOM	7692	NZ	LYS	C	223	62.646	7.566	31.352	1.00	53.12	N
ATOM	7693	C	LYS	C	223	55.657	8.690	31.591	1.00	24.41	C
ATOM	7694	O	LYS	C	223	55.030	7.938	32.333	1.00	23.80	O
ATOM	7695	N	GLY	C	224	55.438	10.000	31.542	1.00	23.35	N
ATOM	7696	CA	GLY	C	224	54.457	10.645	32.395	1.00	19.57	C
ATOM	7697	C	GLY	C	224	53.048	10.674	31.834	1.00	21.16	C
ATOM	7698	O	GLY	C	224	52.169	11.284	32.435	1.00	20.55	O
ATOM	7699	N	LYS	C	225	52.824	10.039	30.680	1.00	20.69	N
ATOM	7700	CA	LYS	C	225	51.478	9.975	30.108	1.00	22.11	C
ATOM	7701	CB	LYS	C	225	51.482	9.297	28.735	1.00	27.15	C
ATOM	7702	CG	LYS	C	225	50.296	9.664	27.853	1.00	33.28	C
ATOM	7703	CD	LYS	C	225	50.408	8.984	26.491	1.00	39.16	C
ATOM	7704	CE	LYS	C	225	49.481	9.621	25.472	1.00	43.97	C
ATOM	7705	NZ	LYS	C	225	49.797	9.170	24.084	1.00	48.53	N
ATOM	7706	C	LYS	C	225	50.538	9.246	31.068	1.00	22.07	C
ATOM	7707	O	LYS	C	225	50.822	8.121	31.489	1.00	23.24	O
ATOM	7708	N	TYR	C	226	49.440	9.926	31.408	1.00	25.17	N
ATOM	7709	CA	TYR	C	226	48.433	9.500	32.395	1.00	27.54	C
ATOM	7710	CB	TYR	C	226	48.028	8.022	32.224	1.00	30.35	C
ATOM	7711	CG	TYR	C	226	47.414	7.705	30.875	1.00	34.83	C
ATOM	7712	CD1	TYR	C	226	46.154	8.196	30.522	1.00	37.41	C
ATOM	7713	CE1	TYR	C	226	45.587	7.902	29.279	1.00	40.27	C
ATOM	7714	CZ	TYR	C	226	46.286	7.108	28.380	1.00	42.03	C
ATOM	7715	OH	TYR	C	226	45.736	6.815	27.152	1.00	46.14	O
ATOM	7716	CE2	TYR	C	226	47.538	6.607	28.709	1.00	39.19	C
ATOM	7717	CD2	TYR	C	226	48.093	6.904	29.953	1.00	36.64	C
ATOM	7718	C	TYR	C	226	48.800	9.812	33.853	1.00	27.30	C
ATOM	7719	O	TYR	C	226	48.042	9.485	34.765	1.00	26.26	O
ATOM	7720	N	TYR	C	227	49.944	10.465	34.069	1.00	24.38	N
ATOM	7721	CA	TYR	C	227	50.366	10.831	35.418	1.00	22.39	C
ATOM	7722	CB	TYR	C	227	51.822	10.431	35.667	1.00	21.64	C
ATOM	7723	CG	TYR	C	227	52.044	8.934	35.658	1.00	24.63	C
ATOM	7724	CD1	TYR	C	227	52.301	8.253	34.465	1.00	26.45	C
ATOM	7725	CE1	TYR	C	227	52.501	6.873	34.451	1.00	27.88	C
ATOM	7726	CZ	TYR	C	227	52.442	6.166	35.637	1.00	28.61	C
ATOM	7727	OH	TYR	C	227	52.644	4.807	35.633	1.00	30.42	O
ATOM	7728	CE2	TYR	C	227	52.187	6.817	36.833	1.00	28.42	C
ATOM	7729	CD2	TYR	C	227	51.985	8.198	36.837	1.00	27.00	C
ATOM	7730	C	TYR	C	227	50.119	12.312	35.745	1.00	24.12	C
ATOM	7731	O	TYR	C	227	50.572	12.815	36.771	1.00	23.83	O
ATOM	7732	N	ALA	C	228	49.410	13.005	34.859	1.00	22.02	N
ATOM	7733	CA	ALA	C	228	48.864	14.316	35.174	1.00	23.15	C

ATOM	7734	CB	ALA	C	228	49.338	15.368	34.187	1.00	21.80	C
ATOM	7735	C	ALA	C	228	47.344	14.181	35.154	1.00	26.08	C
ATOM	7736	O	ALA	C	228	46.768	13.661	34.190	1.00	25.35	O
ATOM	7737	N	VAL	C	229	46.711	14.613	36.239	1.00	22.23	N
ATOM	7738	CA	VAL	C	229	45.264	14.497	36.404	1.00	21.88	C
ATOM	7739	CB	VAL	C	229	44.900	13.556	37.588	1.00	22.10	C
ATOM	7740	CG1	VAL	C	229	43.378	13.474	37.799	1.00	22.71	C
ATOM	7741	CG2	VAL	C	229	45.491	12.154	37.392	1.00	25.22	C
ATOM	7742	C	VAL	C	229	44.688	15.895	36.645	1.00	23.86	C
ATOM	7743	O	VAL	C	229	45.122	16.598	37.560	1.00	23.46	O
ATOM	7744	N	ASN	C	230	43.724	16.283	35.813	1.00	23.74	N
ATOM	7745	CA	ASN	C	230	43.078	17.589	35.905	1.00	21.48	C
ATOM	7746	CB	ASN	C	230	43.506	18.479	34.730	1.00	21.69	C
ATOM	7747	CG	ASN	C	230	44.951	18.939	34.849	1.00	23.80	C
ATOM	7748	OD1	ASN	C	230	45.320	19.608	35.816	1.00	22.70	O
ATOM	7749	ND2	ASN	C	230	45.778	18.566	33.878	1.00	25.30	N
ATOM	7750	C	ASN	C	230	41.556	17.481	35.963	1.00	24.23	C
ATOM	7751	O	ASN	C	230	40.936	16.851	35.099	1.00	22.63	O
ATOM	7752	N	PHE	C	231	40.969	18.091	36.991	1.00	23.13	N
ATOM	7753	CA	PHE	C	231	39.515	18.201	37.108	1.00	21.59	C
ATOM	7754	CB	PHE	C	231	39.031	17.589	38.421	1.00	23.22	C
ATOM	7755	CG	PHE	C	231	37.574	17.200	38.410	1.00	24.99	C
ATOM	7756	CD1	PHE	C	231	37.194	15.892	38.683	1.00	26.17	C
ATOM	7757	CE1	PHE	C	231	35.846	15.523	38.669	1.00	26.36	C
ATOM	7758	CZ	PHE	C	231	34.871	16.470	38.388	1.00	25.00	C
ATOM	7759	CE2	PHE	C	231	35.235	17.785	38.112	1.00	27.53	C
ATOM	7760	CD2	PHE	C	231	36.584	18.144	38.130	1.00	25.47	C
ATOM	7761	C	PHE	C	231	39.103	19.674	37.013	1.00	23.17	C
ATOM	7762	O	PHE	C	231	39.110	20.392	38.017	1.00	23.57	O
ATOM	7763	N	PRO	C	232	38.771	20.124	35.804	1.00	23.05	N
ATOM	7764	CA	PRO	C	232	38.300	21.495	35.590	1.00	25.35	C
ATOM	7765	CB	PRO	C	232	38.369	21.654	34.067	1.00	27.46	C
ATOM	7766	CG	PRO	C	232	38.222	20.266	33.522	1.00	26.45	C
ATOM	7767	CD	PRO	C	232	38.828	19.353	34.546	1.00	27.22	C
ATOM	7768	C	PRO	C	232	36.869	21.672	36.109	1.00	29.02	C
ATOM	7769	O	PRO	C	232	36.012	20.813	35.880	1.00	27.62	O
ATOM	7770	N	MET	C	233	36.632	22.767	36.824	1.00	27.97	N
ATOM	7771	CA	MET	C	233	35.346	23.025	37.463	1.00	29.37	C
ATOM	7772	CB	MET	C	233	35.494	22.995	38.988	1.00	31.11	C
ATOM	7773	CG	MET	C	233	35.511	21.602	39.615	1.00	35.22	C
ATOM	7774	SD	MET	C	233	36.353	21.604	41.231	1.00	38.62	S
ATOM	7775	CE	MET	C	233	36.308	19.858	41.641	1.00	37.47	C
ATOM	7776	C	MET	C	233	34.791	24.378	37.031	1.00	33.15	C
ATOM	7777	O	MET	C	233	35.522	25.225	36.516	1.00	32.82	O
ATOM	7778	N	ARG	C	234	33.493	24.572	37.237	1.00	32.33	N
ATOM	7779	CA	ARG	C	234	32.856	25.863	36.998	1.00	33.50	C
ATOM	7780	CB	ARG	C	234	31.538	25.680	36.246	1.00	36.25	C
ATOM	7781	CG	ARG	C	234	31.703	25.550	34.743	1.00	42.43	C
ATOM	7782	CD	ARG	C	234	30.873	24.437	34.123	1.00	50.34	C
ATOM	7783	NE	ARG	C	234	31.161	24.282	32.696	1.00	56.45	N
ATOM	7784	CZ	ARG	C	234	30.339	23.728	31.808	1.00	58.05	C
ATOM	7785	NH1	ARG	C	234	30.710	23.641	30.537	1.00	59.79	N
ATOM	7786	NH2	ARG	C	234	29.151	23.258	32.178	1.00	57.83	N
ATOM	7787	C	ARG	C	234	32.622	26.576	38.328	1.00	32.08	C
ATOM	7788	O	ARG	C	234	32.895	26.013	39.398	1.00	27.38	O
ATOM	7789	N	ASP	C	235	32.126	27.812	38.251	1.00	31.97	N
ATOM	7790	CA	ASP	C	235	31.793	28.615	39.432	1.00	35.89	C
ATOM	7791	CB	ASP	C	235	31.073	29.903	39.012	1.00	42.65	C
ATOM	7792	CG	ASP	C	235	31.956	30.851	38.221	1.00	50.99	C
ATOM	7793	OD1	ASP	C	235	33.172	30.594	38.101	1.00	54.01	O
ATOM	7794	OD2	ASP	C	235	31.516	31.889	37.681	1.00	52.23	O
ATOM	7795	C	ASP	C	235	30.886	27.880	40.416	1.00	33.10	C
ATOM	7796	O	ASP	C	235	29.993	27.134	40.009	1.00	31.23	O

ATOM	7797	N	GLY	C	236	31.128	28.096	41.707	1.00	29.95	N
ATOM	7798	CA	GLY	C	236	30.141	27.821	42.739	1.00	32.05	C
ATOM	7799	C	GLY	C	236	30.089	26.441	43.362	1.00	32.08	C
ATOM	7800	O	GLY	C	236	29.131	26.132	44.077	1.00	29.53	O
ATOM	7801	N	ILE	C	237	31.102	25.613	43.111	1.00	29.02	N
ATOM	7802	CA	ILE	C	237	31.148	24.288	43.722	1.00	30.75	C
ATOM	7803	CB	ILE	C	237	32.406	23.494	43.273	1.00	32.33	C
ATOM	7804	CG1	ILE	C	237	32.229	22.001	43.567	1.00	31.61	C
ATOM	7805	CD1	ILE	C	237	32.304	21.152	42.344	1.00	34.57	C
ATOM	7806	CG2	ILE	C	237	33.685	24.029	43.935	1.00	26.93	C
ATOM	7807	C	ILE	C	237	31.066	24.398	45.244	1.00	33.67	C
ATOM	7808	O	ILE	C	237	31.704	25.267	45.850	1.00	32.02	O
ATOM	7809	N	ASP	C	238	30.260	23.532	45.850	1.00	34.63	N
ATOM	7810	CA	ASP	C	238	30.076	23.540	47.298	1.00	34.77	C
ATOM	7811	CB	ASP	C	238	28.585	23.651	47.671	1.00	39.13	C
ATOM	7812	CG	ASP	C	238	27.732	22.531	47.084	1.00	44.74	C
ATOM	7813	OD1	ASP	C	238	28.279	21.508	46.616	1.00	45.72	O
ATOM	7814	OD2	ASP	C	238	26.485	22.591	47.055	1.00	48.25	O
ATOM	7815	C	ASP	C	238	30.723	22.326	47.952	1.00	31.34	C
ATOM	7816	O	ASP	C	238	31.259	21.456	47.262	1.00	30.89	O
ATOM	7817	N	ASP	C	239	30.655	22.282	49.280	1.00	30.05	N
ATOM	7818	CA	ASP	C	239	31.263	21.233	50.098	1.00	32.47	C
ATOM	7819	CB	ASP	C	239	30.833	21.407	51.558	1.00	35.34	C
ATOM	7820	CG	ASP	C	239	31.643	22.459	52.296	1.00	39.09	C
ATOM	7821	OD1	ASP	C	239	32.659	22.959	51.755	1.00	38.69	O
ATOM	7822	OD2	ASP	C	239	31.330	22.837	53.442	1.00	36.06	O
ATOM	7823	C	ASP	C	239	30.912	19.810	49.661	1.00	35.54	C
ATOM	7824	O	ASP	C	239	31.802	18.962	49.534	1.00	33.03	O
ATOM	7825	N	GLU	C	240	29.618	19.554	49.463	1.00	34.62	N
ATOM	7826	CA	GLU	C	240	29.127	18.214	49.125	1.00	38.42	C
ATOM	7827	CB	GLU	C	240	27.588	18.132	49.208	1.00	42.18	C
ATOM	7828	CG	GLU	C	240	26.823	18.962	48.176	1.00	51.64	C
ATOM	7829	CD	GLU	C	240	25.339	18.624	48.097	1.00	56.37	C
ATOM	7830	OE1	GLU	C	240	24.836	18.409	46.970	1.00	58.02	O
ATOM	7831	OE2	GLU	C	240	24.667	18.585	49.153	1.00	59.74	O
ATOM	7832	C	GLU	C	240	29.635	17.727	47.765	1.00	35.32	C
ATOM	7833	O	GLU	C	240	30.138	16.608	47.656	1.00	36.83	O
ATOM	7834	N	SER	C	241	29.515	18.579	46.748	1.00	35.39	N
ATOM	7835	CA	SER	C	241	29.912	18.243	45.382	1.00	34.94	C
ATOM	7836	CB	SER	C	241	29.471	19.336	44.413	1.00	34.90	C
ATOM	7837	OG	SER	C	241	28.059	19.389	44.327	1.00	43.24	O
ATOM	7838	C	SER	C	241	31.416	18.029	45.271	1.00	34.48	C
ATOM	7839	O	SER	C	241	31.866	17.124	44.568	1.00	33.38	O
ATOM	7840	N	TYR	C	242	32.183	18.862	45.976	1.00	30.03	N
ATOM	7841	CA	TYR	C	242	33.642	18.771	45.970	1.00	27.72	C
ATOM	7842	CB	TYR	C	242	34.260	19.969	46.695	1.00	27.30	C
ATOM	7843	CG	TYR	C	242	35.719	20.222	46.370	1.00	26.43	C
ATOM	7844	CD1	TYR	C	242	36.086	21.194	45.436	1.00	28.25	C
ATOM	7845	CE1	TYR	C	242	37.430	21.442	45.141	1.00	26.95	C
ATOM	7846	CZ	TYR	C	242	38.418	20.713	45.787	1.00	27.25	C
ATOM	7847	OH	TYR	C	242	39.745	20.950	45.494	1.00	26.58	O
ATOM	7848	CE2	TYR	C	242	38.081	19.745	46.719	1.00	28.45	C
ATOM	7849	CD2	TYR	C	242	36.734	19.505	47.009	1.00	27.66	C
ATOM	7850	C	TYR	C	242	34.087	17.480	46.629	1.00	29.13	C
ATOM	7851	O	TYR	C	242	34.932	16.762	46.089	1.00	28.88	O
ATOM	7852	N	GLY	C	243	33.504	17.186	47.790	1.00	28.46	N
ATOM	7853	CA	GLY	C	243	33.827	15.988	48.545	1.00	30.69	C
ATOM	7854	C	GLY	C	243	33.494	14.701	47.808	1.00	34.14	C
ATOM	7855	O	GLY	C	243	34.233	13.716	47.912	1.00	34.47	O
ATOM	7856	N	GLN	C	244	32.393	14.713	47.059	1.00	36.35	N
ATOM	7857	CA	GLN	C	244	31.947	13.545	46.292	1.00	40.00	C
ATOM	7858	CB	GLN	C	244	30.479	13.694	45.882	1.00	43.26	C
ATOM	7859	CG	GLN	C	244	29.491	13.396	46.999	1.00	49.53	C

ATOM	7860	CD	GLN	C	244	28.046	13.506	46.545	1.00	53.70	C
ATOM	7861	OE1	GLN	C	244	27.509	14.609	46.419	1.00	56.27	O
ATOM	7862	NE2	GLN	C	244	27.412	12.363	46.302	1.00	55.69	N
ATOM	7863	C	GLN	C	244	32.815	13.305	45.055	1.00	40.98	C
ATOM	7864	O	GLN	C	244	32.689	12.278	44.382	1.00	39.10	O
ATOM	7865	N	ILE	C	245	33.693	14.260	44.763	1.00	39.23	N
ATOM	7866	CA	ILE	C	245	34.630	14.128	43.656	1.00	38.22	C
ATOM	7867	CB	ILE	C	245	34.524	15.363	42.712	1.00	41.77	C
ATOM	7868	CG1	ILE	C	245	33.773	14.985	41.430	1.00	44.28	C
ATOM	7869	CD1	ILE	C	245	32.314	14.595	41.629	1.00	49.76	C
ATOM	7870	CG2	ILE	C	245	35.896	15.971	42.387	1.00	43.30	C
ATOM	7871	C	ILE	C	245	36.049	13.872	44.173	1.00	36.94	C
ATOM	7872	O	ILE	C	245	36.758	13.009	43.648	1.00	32.61	O
ATOM	7873	N	PHE	C	246	36.431	14.596	45.227	1.00	32.22	N
ATOM	7874	CA	PHE	C	246	37.771	14.511	45.799	1.00	29.36	C
ATOM	7875	CB	PHE	C	246	37.973	15.575	46.891	1.00	26.09	C
ATOM	7876	CG	PHE	C	246	39.391	15.669	47.392	1.00	24.54	C
ATOM	7877	CD1	PHE	C	246	39.797	14.956	48.513	1.00	24.43	C
ATOM	7878	CE1	PHE	C	246	41.107	15.036	48.979	1.00	27.43	C
ATOM	7879	CZ	PHE	C	246	42.034	15.842	48.314	1.00	26.43	C
ATOM	7880	CE2	PHE	C	246	41.638	16.557	47.191	1.00	24.41	C
ATOM	7881	CD2	PHE	C	246	40.320	16.472	46.738	1.00	26.14	C
ATOM	7882	C	PHE	C	246	38.084	13.125	46.348	1.00	29.11	C
ATOM	7883	O	PHE	C	246	39.106	12.540	45.996	1.00	28.42	O
ATOM	7884	N	LYS	C	247	37.210	12.608	47.209	1.00	29.31	N
ATOM	7885	CA	LYS	C	247	37.452	11.322	47.866	1.00	33.49	C
ATOM	7886	CB	LYS	C	247	36.417	11.044	48.969	1.00	36.75	C
ATOM	7887	CG	LYS	C	247	36.892	10.051	50.029	1.00	43.28	C
ATOM	7888	CD	LYS	C	247	35.895	9.929	51.178	1.00	46.76	C
ATOM	7889	CE	LYS	C	247	35.871	8.511	51.745	1.00	50.62	C
ATOM	7890	NZ	LYS	C	247	34.486	7.944	51.798	1.00	50.63	N
ATOM	7891	C	LYS	C	247	37.584	10.128	46.897	1.00	31.93	C
ATOM	7892	O	LYS	C	247	38.549	9.373	47.011	1.00	31.70	O
ATOM	7893	N	PRO	C	248	36.640	9.938	45.970	1.00	34.74	N
ATOM	7894	CA	PRO	C	248	36.757	8.857	44.976	1.00	35.75	C
ATOM	7895	CB	PRO	C	248	35.481	9.010	44.142	1.00	36.77	C
ATOM	7896	CG	PRO	C	248	34.538	9.706	45.043	1.00	38.33	C
ATOM	7897	CD	PRO	C	248	35.380	10.689	45.799	1.00	35.90	C
ATOM	7898	C	PRO	C	248	37.994	8.987	44.077	1.00	33.39	C
ATOM	7899	O	PRO	C	248	38.694	7.993	43.876	1.00	30.43	O
ATOM	7900	N	ILE	C	249	38.257	10.186	43.556	1.00	32.73	N
ATOM	7901	CA	ILE	C	249	39.416	10.404	42.688	1.00	31.14	C
ATOM	7902	CB	ILE	C	249	39.409	11.838	42.084	1.00	34.48	C
ATOM	7903	CG1	ILE	C	249	38.286	11.994	41.048	1.00	35.61	C
ATOM	7904	CD1	ILE	C	249	38.465	11.195	39.755	1.00	42.58	C
ATOM	7905	CG2	ILE	C	249	40.783	12.211	41.487	1.00	33.95	C
ATOM	7906	C	ILE	C	249	40.723	10.101	43.425	1.00	31.62	C
ATOM	7907	O	ILE	C	249	41.558	9.334	42.929	1.00	31.70	O
ATOM	7908	N	ILE	C	250	40.884	10.679	44.616	1.00	29.58	N
ATOM	7909	CA	ILE	C	250	42.110	10.499	45.399	1.00	27.49	C
ATOM	7910	CB	ILE	C	250	42.194	11.541	46.560	1.00	26.02	C
ATOM	7911	CG1	ILE	C	250	42.345	12.970	46.000	1.00	28.41	C
ATOM	7912	CD1	ILE	C	250	43.600	13.226	45.124	1.00	24.20	C
ATOM	7913	CG2	ILE	C	250	43.306	11.193	47.545	1.00	27.40	C
ATOM	7914	C	ILE	C	250	42.276	9.062	45.899	1.00	28.26	C
ATOM	7915	O	ILE	C	250	43.392	8.553	45.955	1.00	26.53	O
ATOM	7916	N	SER	C	251	41.172	8.404	46.250	1.00	26.19	N
ATOM	7917	CA	SER	C	251	41.242	6.994	46.630	1.00	28.60	C
ATOM	7918	CB	SER	C	251	39.885	6.493	47.135	1.00	30.08	C
ATOM	7919	OG	SER	C	251	39.575	7.097	48.379	1.00	36.51	O
ATOM	7920	C	SER	C	251	41.753	6.129	45.467	1.00	26.24	C
ATOM	7921	O	SER	C	251	42.614	5.275	45.662	1.00	30.22	O
ATOM	7922	N	LYS	C	252	41.237	6.379	44.266	1.00	29.04	N

ATOM	7923	CA	LYS	C	252	41.647	5.638	43.074	1.00	31.86	C
ATOM	7924	CB	LYS	C	252	40.706	5.934	41.901	1.00	34.07	C
ATOM	7925	CG	LYS	C	252	40.903	5.037	40.680	1.00	39.92	C
ATOM	7926	CD	LYS	C	252	39.992	3.819	40.712	1.00	45.03	C
ATOM	7927	CE	LYS	C	252	39.910	3.161	39.334	1.00	49.14	C
ATOM	7928	NZ	LYS	C	252	40.540	1.807	39.321	1.00	49.66	N
ATOM	7929	C	LYS	C	252	43.109	5.932	42.705	1.00	33.22	C
ATOM	7930	O	LYS	C	252	43.863	5.021	42.355	1.00	29.80	O
ATOM	7931	N	VAL	C	253	43.504	7.201	42.804	1.00	29.39	N
ATOM	7932	CA	VAL	C	253	44.897	7.595	42.588	1.00	27.87	C
ATOM	7933	CB	VAL	C	253	45.079	9.129	42.733	1.00	28.61	C
ATOM	7934	CG1	VAL	C	253	46.553	9.498	42.874	1.00	26.41	C
ATOM	7935	CG2	VAL	C	253	44.458	9.858	41.548	1.00	28.23	C
ATOM	7936	C	VAL	C	253	45.847	6.842	43.529	1.00	29.22	C
ATOM	7937	O	VAL	C	253	46.860	6.297	43.085	1.00	29.47	O
ATOM	7938	N	MET	C	254	45.508	6.797	44.820	1.00	28.66	N
ATOM	7939	CA	MET	C	254	46.330	6.097	45.810	1.00	31.78	C
ATOM	7940	CB	MET	C	254	45.750	6.265	47.216	1.00	33.16	C
ATOM	7941	CG	MET	C	254	45.912	7.660	47.791	1.00	34.69	C
ATOM	7942	SD	MET	C	254	47.608	8.026	48.258	1.00	34.16	S
ATOM	7943	CE	MET	C	254	47.396	9.694	48.937	1.00	35.33	C
ATOM	7944	C	MET	C	254	46.473	4.610	45.486	1.00	33.25	C
ATOM	7945	O	MET	C	254	47.569	4.050	45.572	1.00	31.39	O
ATOM	7946	N	GLU	C	255	45.357	3.992	45.108	1.00	33.62	N
ATOM	7947	CA	GLU	C	255	45.308	2.578	44.743	1.00	36.43	C
ATOM	7948	CB	GLU	C	255	43.853	2.164	44.487	1.00	40.73	C
ATOM	7949	CG	GLU	C	255	43.645	0.691	44.167	1.00	50.44	C
ATOM	7950	CD	GLU	C	255	42.247	0.389	43.649	1.00	55.06	C
ATOM	7951	OE1	GLU	C	255	41.629	1.271	43.008	1.00	57.22	O
ATOM	7952	OE2	GLU	C	255	41.763	-0.739	43.880	1.00	57.85	O
ATOM	7953	C	GLU	C	255	46.169	2.273	43.518	1.00	36.40	C
ATOM	7954	O	GLU	C	255	46.939	1.313	43.520	1.00	38.27	O
ATOM	7955	N	MET	C	256	46.033	3.100	42.484	1.00	34.77	N
ATOM	7956	CA	MET	C	256	46.712	2.883	41.214	1.00	32.53	C
ATOM	7957	CB	MET	C	256	45.970	3.601	40.081	1.00	32.00	C
ATOM	7958	CG	MET	C	256	44.550	3.097	39.814	1.00	38.42	C
ATOM	7959	SD	MET	C	256	44.431	1.296	39.623	1.00	42.06	S
ATOM	7960	CE	MET	C	256	45.248	1.073	38.038	1.00	41.93	C
ATOM	7961	C	MET	C	256	48.180	3.322	41.238	1.00	32.56	C
ATOM	7962	O	MET	C	256	49.040	2.642	40.685	1.00	31.39	O
ATOM	7963	N	TYR	C	257	48.458	4.457	41.878	1.00	29.12	N
ATOM	7964	CA	TYR	C	257	49.793	5.051	41.843	1.00	27.80	C
ATOM	7965	CB	TYR	C	257	49.709	6.587	41.829	1.00	25.69	C
ATOM	7966	CG	TYR	C	257	51.037	7.273	41.583	1.00	25.43	C
ATOM	7967	CD1	TYR	C	257	51.531	8.224	42.483	1.00	24.74	C
ATOM	7968	CE1	TYR	C	257	52.748	8.857	42.261	1.00	26.34	C
ATOM	7969	CZ	TYR	C	257	53.486	8.546	41.132	1.00	27.73	C
ATOM	7970	OH	TYR	C	257	54.694	9.168	40.912	1.00	26.72	O
ATOM	7971	CE2	TYR	C	257	53.025	7.600	40.224	1.00	25.98	C
ATOM	7972	CD2	TYR	C	257	51.799	6.977	40.452	1.00	26.03	C
ATOM	7973	C	TYR	C	257	50.714	4.564	42.958	1.00	29.04	C
ATOM	7974	O	TYR	C	257	51.922	4.449	42.758	1.00	28.60	O
ATOM	7975	N	GLN	C	258	50.139	4.271	44.124	1.00	29.61	N
ATOM	7976	CA	GLN	C	258	50.895	3.829	45.301	1.00	30.48	C
ATOM	7977	CB	GLN	C	258	51.317	2.360	45.175	1.00	36.43	C
ATOM	7978	CG	GLN	C	258	50.184	1.389	44.904	1.00	43.68	C
ATOM	7979	CD	GLN	C	258	50.682	0.114	44.263	1.00	50.00	C
ATOM	7980	OE1	GLN	C	258	50.710	0.000	43.036	1.00	54.55	O
ATOM	7981	NE2	GLN	C	258	51.095	-0.844	45.088	1.00	49.03	N
ATOM	7982	C	GLN	C	258	52.122	4.699	45.597	1.00	30.14	C
ATOM	7983	O	GLN	C	258	53.255	4.202	45.599	1.00	26.83	O
ATOM	7984	N	PRO	C	259	51.903	5.990	45.854	1.00	26.91	N
ATOM	7985	CA	PRO	C	259	53.012	6.904	46.161	1.00	25.70	C

ATOM	7986	CB	PRO	C	259	52.337	8.281	46.162	1.00	25.75	C
ATOM	7987	CG	PRO	C	259	50.904	7.998	46.542	1.00	24.78	C
ATOM	7988	CD	PRO	C	259	50.595	6.675	45.888	1.00	25.39	C
ATOM	7989	C	PRO	C	259	53.614	6.602	47.534	1.00	28.24	C
ATOM	7990	O	PRO	C	259	52.930	6.020	48.378	1.00	30.52	O
ATOM	7991	N	SER	C	260	54.870	6.979	47.760	1.00	27.65	N
ATOM	7992	CA	SER	C	260	55.467	6.819	49.087	1.00	28.16	C
ATOM	7993	CB	SER	C	260	56.822	6.105	49.010	1.00	34.12	C
ATOM	7994	OG	SER	C	260	57.678	6.713	48.065	1.00	39.53	O
ATOM	7995	C	SER	C	260	55.571	8.139	49.854	1.00	27.93	C
ATOM	7996	O	SER	C	260	55.994	8.161	51.009	1.00	25.87	O
ATOM	7997	N	ALA	C	261	55.176	9.234	49.202	1.00	23.37	N
ATOM	7998	CA	ALA	C	261	55.130	10.559	49.824	1.00	25.56	C
ATOM	7999	CB	ALA	C	261	56.504	11.224	49.795	1.00	24.30	C
ATOM	8000	C	ALA	C	261	54.097	11.434	49.136	1.00	24.44	C
ATOM	8001	O	ALA	C	261	53.796	11.251	47.948	1.00	23.67	O
ATOM	8002	N	VAL	C	262	53.538	12.380	49.885	1.00	22.61	N
ATOM	8003	CA	VAL	C	262	52.494	13.238	49.344	1.00	23.65	C
ATOM	8004	CB	VAL	C	262	51.090	12.845	49.873	1.00	23.38	C
ATOM	8005	CG1	VAL	C	262	49.992	13.709	49.247	1.00	22.24	C
ATOM	8006	CG2	VAL	C	262	50.804	11.364	49.607	1.00	27.99	C
ATOM	8007	C	VAL	C	262	52.781	14.708	49.647	1.00	21.56	C
ATOM	8008	O	VAL	C	262	53.195	15.059	50.752	1.00	22.52	O
ATOM	8009	N	VAL	C	263	52.568	15.547	48.642	1.00	22.31	N
ATOM	8010	CA	VAL	C	263	52.614	16.995	48.800	1.00	19.80	C
ATOM	8011	CB	VAL	C	263	53.616	17.657	47.820	1.00	19.48	C
ATOM	8012	CG1	VAL	C	263	53.580	19.181	47.960	1.00	20.93	C
ATOM	8013	CG2	VAL	C	263	55.014	17.142	48.057	1.00	18.31	C
ATOM	8014	C	VAL	C	263	51.220	17.533	48.538	1.00	20.20	C
ATOM	8015	O	VAL	C	263	50.665	17.329	47.458	1.00	24.47	O
ATOM	8016	N	LEU	C	264	50.649	18.212	49.532	1.00	20.59	N
ATOM	8017	CA	LEU	C	264	49.321	18.796	49.393	1.00	21.73	C
ATOM	8018	CB	LEU	C	264	48.376	18.265	50.487	1.00	23.68	C
ATOM	8019	CG	LEU	C	264	46.943	18.807	50.595	1.00	25.20	C
ATOM	8020	CD1	LEU	C	264	46.109	18.509	49.362	1.00	26.73	C
ATOM	8021	CD2	LEU	C	264	46.263	18.244	51.841	1.00	26.62	C
ATOM	8022	C	LEU	C	264	49.400	20.321	49.427	1.00	21.69	C
ATOM	8023	O	LEU	C	264	49.803	20.913	50.436	1.00	24.86	O
ATOM	8024	N	GLN	C	265	49.032	20.947	48.313	1.00	19.20	N
ATOM	8025	CA	GLN	C	265	48.938	22.395	48.248	1.00	20.54	C
ATOM	8026	CB	GLN	C	265	49.224	22.882	46.827	1.00	19.06	C
ATOM	8027	CG	GLN	C	265	49.654	24.344	46.721	1.00	21.26	C
ATOM	8028	CD	GLN	C	265	48.494	25.282	46.408	1.00	23.47	C
ATOM	8029	OE1	GLN	C	265	47.333	24.956	46.676	1.00	28.18	O
ATOM	8030	NE2	GLN	C	265	48.802	26.447	45.840	1.00	19.56	N
ATOM	8031	C	GLN	C	265	47.523	22.765	48.676	1.00	21.51	C
ATOM	8032	O	GLN	C	265	46.554	22.350	48.042	1.00	23.35	O
ATOM	8033	N	CYS	C	266	47.415	23.536	49.757	1.00	22.92	N
ATOM	8034	CA	CYS	C	266	46.126	23.831	50.382	1.00	24.39	C
ATOM	8035	CB	CYS	C	266	46.201	23.584	51.893	1.00	26.10	C
ATOM	8036	SG	CYS	C	266	46.732	21.937	52.377	1.00	29.06	S
ATOM	8037	C	CYS	C	266	45.674	25.266	50.150	1.00	24.88	C
ATOM	8038	O	CYS	C	266	45.189	25.918	51.081	1.00	26.00	O
ATOM	8039	N	GLY	C	267	45.833	25.751	48.921	1.00	23.48	N
ATOM	8040	CA	GLY	C	267	45.412	27.094	48.555	1.00	24.37	C
ATOM	8041	C	GLY	C	267	43.996	27.378	49.029	1.00	28.37	C
ATOM	8042	O	GLY	C	267	43.069	26.616	48.742	1.00	22.56	O
ATOM	8043	N	ALA	C	268	43.837	28.481	49.755	1.00	24.97	N
ATOM	8044	CA	ALA	C	268	42.581	28.799	50.423	1.00	25.61	C
ATOM	8045	CB	ALA	C	268	42.860	29.373	51.811	1.00	26.74	C
ATOM	8046	C	ALA	C	268	41.685	29.738	49.611	1.00	24.93	C
ATOM	8047	O	ALA	C	268	40.646	30.188	50.093	1.00	25.14	O
ATOM	8048	N	ASP	C	269	42.068	30.018	48.370	1.00	21.96	N

ATOM	8049	CA	ASP	C	269	41.222	30.836	47.503	1.00	22.63	C
ATOM	8050	CB	ASP	C	269	42.033	31.554	46.421	1.00	19.25	C
ATOM	8051	CG	ASP	C	269	43.019	30.641	45.708	1.00	24.43	C
ATOM	8052	OD1	ASP	C	269	42.976	29.396	45.875	1.00	20.41	O
ATOM	8053	OD2	ASP	C	269	43.888	31.108	44.950	1.00	23.10	O
ATOM	8054	C	ASP	C	269	40.068	30.039	46.885	1.00	20.93	C
ATOM	8055	O	ASP	C	269	39.299	30.564	46.081	1.00	21.23	O
ATOM	8056	N	SER	C	270	39.971	28.770	47.267	1.00	21.50	N
ATOM	8057	CA	SER	C	270	38.838	27.931	46.901	1.00	24.44	C
ATOM	8058	CB	SER	C	270	39.282	26.476	46.707	1.00	21.59	C
ATOM	8059	OG	SER	C	270	40.119	26.052	47.769	1.00	23.39	O
ATOM	8060	C	SER	C	270	37.721	28.024	47.950	1.00	26.05	C
ATOM	8061	O	SER	C	270	36.701	27.339	47.841	1.00	26.93	O
ATOM	8062	N	LEU	C	271	37.918	28.878	48.954	1.00	25.05	N
ATOM	8063	CA	LEU	C	271	36.921	29.086	50.005	1.00	25.99	C
ATOM	8064	CB	LEU	C	271	37.581	29.608	51.282	1.00	23.60	C
ATOM	8065	CG	LEU	C	271	38.445	28.649	52.107	1.00	26.00	C
ATOM	8066	CD1	LEU	C	271	39.012	29.367	53.315	1.00	25.41	C
ATOM	8067	CD2	LEU	C	271	37.667	27.413	52.540	1.00	27.51	C
ATOM	8068	C	LEU	C	271	35.820	30.049	49.580	1.00	27.72	C
ATOM	8069	O	LEU	C	271	36.042	30.960	48.776	1.00	24.33	O
ATOM	8070	N	SER	C	272	34.624	29.838	50.132	1.00	28.75	N
ATOM	8071	CA	SER	C	272	33.527	30.779	49.990	1.00	26.57	C
ATOM	8072	CB	SER	C	272	32.353	30.348	50.870	1.00	29.43	C
ATOM	8073	OG	SER	C	272	31.235	31.187	50.653	1.00	32.58	O
ATOM	8074	C	SER	C	272	33.984	32.165	50.423	1.00	24.07	C
ATOM	8075	O	SER	C	272	34.682	32.304	51.423	1.00	28.83	O
ATOM	8076	N	GLY	C	273	33.597	33.177	49.657	1.00	27.95	N
ATOM	8077	CA	GLY	C	273	33.867	34.559	50.013	1.00	31.38	C
ATOM	8078	C	GLY	C	273	35.276	35.041	49.716	1.00	31.85	C
ATOM	8079	O	GLY	C	273	35.672	36.113	50.184	1.00	28.59	O
ATOM	8080	N	ASP	C	274	36.040	34.268	48.944	1.00	29.37	N
ATOM	8081	CA	ASP	C	274	37.385	34.709	48.580	1.00	28.85	C
ATOM	8082	CB	ASP	C	274	38.220	33.587	47.959	1.00	28.61	C
ATOM	8083	CG	ASP	C	274	39.672	33.990	47.792	1.00	32.21	C
ATOM	8084	OD1	ASP	C	274	40.454	33.825	48.756	1.00	32.02	O
ATOM	8085	OD2	ASP	C	274	40.107	34.511	46.742	1.00	30.75	O
ATOM	8086	C	ASP	C	274	37.326	35.903	47.640	1.00	29.31	C
ATOM	8087	O	ASP	C	274	36.488	35.954	46.741	1.00	29.37	O
ATOM	8088	N	ARG	C	275	38.231	36.855	47.859	1.00	29.73	N
ATOM	8089	CA	ARG	C	275	38.302	38.083	47.070	1.00	35.74	C
ATOM	8090	CB	ARG	C	275	39.447	38.962	47.580	1.00	38.60	C
ATOM	8091	CG	ARG	C	275	39.146	40.448	47.588	1.00	49.39	C
ATOM	8092	CD	ARG	C	275	40.170	41.275	48.348	1.00	53.24	C
ATOM	8093	NE	ARG	C	275	40.480	42.530	47.664	1.00	59.13	N
ATOM	8094	CZ	ARG	C	275	41.571	43.262	47.878	1.00	61.48	C
ATOM	8095	NH1	ARG	C	275	42.485	42.878	48.762	1.00	60.41	N
ATOM	8096	NH2	ARG	C	275	41.750	44.390	47.203	1.00	63.30	N
ATOM	8097	C	ARG	C	275	38.467	37.830	45.569	1.00	35.11	C
ATOM	8098	O	ARG	C	275	37.892	38.551	44.753	1.00	35.20	O
ATOM	8099	N	LEU	C	276	39.244	36.805	45.216	1.00	32.99	N
ATOM	8100	CA	LEU	C	276	39.523	36.478	43.815	1.00	33.48	C
ATOM	8101	CB	LEU	C	276	41.037	36.364	43.579	1.00	32.85	C
ATOM	8102	CG	LEU	C	276	41.911	37.588	43.897	1.00	33.08	C
ATOM	8103	CD1	LEU	C	276	43.339	37.356	43.442	1.00	32.13	C
ATOM	8104	CD2	LEU	C	276	41.354	38.874	43.280	1.00	35.12	C
ATOM	8105	C	LEU	C	276	38.823	35.207	43.329	1.00	34.90	C
ATOM	8106	O	LEU	C	276	38.602	35.038	42.127	1.00	38.61	O
ATOM	8107	N	GLY	C	277	38.480	34.320	44.259	1.00	31.77	N
ATOM	8108	CA	GLY	C	277	37.896	33.032	43.918	1.00	31.85	C
ATOM	8109	C	GLY	C	277	36.387	33.051	43.732	1.00	37.11	C
ATOM	8110	O	GLY	C	277	35.715	34.006	44.128	1.00	35.84	O
ATOM	8111	N	CYS	C	278	35.861	31.985	43.131	1.00	33.17	N

ATOM	8112	CA	CYS	C	278	34.427	31.854	42.877	1.00	37.35	C
ATOM	8113	CB	CYS	C	278	34.110	32.189	41.415	1.00	42.61	C
ATOM	8114	SG	CYS	C	278	35.244	31.433	40.227	1.00	56.01	S
ATOM	8115	C	CYS	C	278	33.880	30.469	43.244	1.00	33.64	C
ATOM	8116	O	CYS	C	278	32.852	30.040	42.715	1.00	33.08	O
ATOM	8117	N	PHE	C	279	34.578	29.773	44.142	1.00	29.85	N
ATOM	8118	CA	PHE	C	279	34.088	28.524	44.714	1.00	27.75	C
ATOM	8119	CB	PHE	C	279	35.253	27.564	44.998	1.00	26.59	C
ATOM	8120	CG	PHE	C	279	35.748	26.802	43.780	1.00	26.30	C
ATOM	8121	CD1	PHE	C	279	36.740	25.828	43.916	1.00	25.91	C
ATOM	8122	CE1	PHE	C	279	37.201	25.108	42.808	1.00	24.24	C
ATOM	8123	CZ	PHE	C	279	36.677	25.361	41.548	1.00	22.25	C
ATOM	8124	CE2	PHE	C	279	35.682	26.331	41.393	1.00	27.56	C
ATOM	8125	CD2	PHE	C	279	35.225	27.046	42.510	1.00	25.82	C
ATOM	8126	C	PHE	C	279	33.290	28.829	45.994	1.00	27.95	C
ATOM	8127	O	PHE	C	279	33.261	29.974	46.446	1.00	27.07	O
ATOM	8128	N	ASN	C	280	32.653	27.805	46.563	1.00	29.39	N
ATOM	8129	CA	ASN	C	280	31.781	27.950	47.733	1.00	29.61	C
ATOM	8130	CB	ASN	C	280	30.303	27.864	47.298	1.00	32.12	C
ATOM	8131	CG	ASN	C	280	29.343	28.527	48.294	1.00	36.48	C
ATOM	8132	OD1	ASN	C	280	29.746	29.346	49.126	1.00	34.24	O
ATOM	8133	ND2	ASN	C	280	28.060	28.166	48.207	1.00	35.36	N
ATOM	8134	C	ASN	C	280	32.086	26.927	48.833	1.00	28.57	C
ATOM	8135	O	ASN	C	280	31.176	26.395	49.479	1.00	29.42	O
ATOM	8136	N	LEU	C	281	33.369	26.646	49.050	1.00	26.62	N
ATOM	8137	CA	LEU	C	281	33.766	25.709	50.101	1.00	26.52	C
ATOM	8138	CB	LEU	C	281	35.108	25.039	49.773	1.00	26.76	C
ATOM	8139	CG	LEU	C	281	35.316	24.279	48.453	1.00	29.90	C
ATOM	8140	CD1	LEU	C	281	36.705	23.645	48.437	1.00	25.82	C
ATOM	8141	CD2	LEU	C	281	34.252	23.215	48.236	1.00	30.26	C
ATOM	8142	C	LEU	C	281	33.870	26.412	51.451	1.00	29.26	C
ATOM	8143	O	LEU	C	281	34.238	27.583	51.523	1.00	31.12	O
ATOM	8144	N	THR	C	282	33.545	25.686	52.516	1.00	30.02	N
ATOM	8145	CA	THR	C	282	33.773	26.168	53.874	1.00	29.16	C
ATOM	8146	CB	THR	C	282	32.677	25.664	54.837	1.00	31.07	C
ATOM	8147	OG1	THR	C	282	32.661	24.232	54.827	1.00	30.15	O
ATOM	8148	CG2	THR	C	282	31.288	26.056	54.348	1.00	30.54	C
ATOM	8149	C	THR	C	282	35.118	25.648	54.345	1.00	29.74	C
ATOM	8150	O	THR	C	282	35.759	24.844	53.656	1.00	30.20	O
ATOM	8151	N	VAL	C	283	35.531	26.094	55.528	1.00	29.42	N
ATOM	8152	CA	VAL	C	283	36.776	25.645	56.140	1.00	29.21	C
ATOM	8153	CB	VAL	C	283	37.123	26.497	57.389	1.00	30.05	C
ATOM	8154	CG1	VAL	C	283	38.201	25.838	58.242	1.00	29.58	C
ATOM	8155	CG2	VAL	C	283	37.571	27.893	56.958	1.00	28.11	C
ATOM	8156	C	VAL	C	283	36.711	24.143	56.446	1.00	34.16	C
ATOM	8157	O	VAL	C	283	37.707	23.428	56.306	1.00	31.84	O
ATOM	8158	N	LYS	C	284	35.528	23.671	56.831	1.00	33.82	N
ATOM	8159	CA	LYS	C	284	35.307	22.248	57.069	1.00	35.83	C
ATOM	8160	CB	LYS	C	284	33.954	22.018	57.751	1.00	39.93	C
ATOM	8161	CG	LYS	C	284	34.054	21.817	59.259	1.00	44.87	C
ATOM	8162	CD	LYS	C	284	32.691	21.560	59.882	1.00	48.64	C
ATOM	8163	CE	LYS	C	284	32.713	21.806	61.386	1.00	51.12	C
ATOM	8164	NZ	LYS	C	284	31.372	22.209	61.897	1.00	52.36	N
ATOM	8165	C	LYS	C	284	35.408	21.426	55.781	1.00	31.70	C
ATOM	8166	O	LYS	C	284	36.025	20.360	55.773	1.00	33.92	O
ATOM	8167	N	GLY	C	285	34.800	21.924	54.706	1.00	31.39	N
ATOM	8168	CA	GLY	C	285	34.849	21.263	53.412	1.00	34.56	C
ATOM	8169	C	GLY	C	285	36.270	21.182	52.886	1.00	33.53	C
ATOM	8170	O	GLY	C	285	36.728	20.123	52.445	1.00	31.68	O
ATOM	8171	N	HIS	C	286	36.965	22.314	52.958	1.00	30.67	N
ATOM	8172	CA	HIS	C	286	38.364	22.425	52.561	1.00	29.94	C
ATOM	8173	CB	HIS	C	286	38.836	23.863	52.778	1.00	30.45	C
ATOM	8174	CG	HIS	C	286	39.995	24.267	51.923	1.00	29.92	C

ATOM	8175	ND1	HIS	C	286	41.305	24.126	52.329	1.00	30.44	N
ATOM	8176	CE1	HIS	C	286	42.108	24.588	51.388	1.00	30.91	C
ATOM	8177	NE2	HIS	C	286	41.367	25.025	50.385	1.00	32.96	N
ATOM	8178	CD2	HIS	C	286	40.042	24.843	50.698	1.00	30.44	C
ATOM	8179	C	HIS	C	286	39.238	21.454	53.353	1.00	28.13	C
ATOM	8180	O	HIS	C	286	40.001	20.690	52.769	1.00	30.44	O
ATOM	8181	N	ALA	C	287	39.109	21.474	54.679	1.00	27.70	N
ATOM	8182	CA	ALA	C	287	39.952	20.656	55.557	1.00	27.83	C
ATOM	8183	CB	ALA	C	287	39.874	21.153	56.981	1.00	30.89	C
ATOM	8184	C	ALA	C	287	39.679	19.148	55.510	1.00	27.52	C
ATOM	8185	O	ALA	C	287	40.518	18.358	55.952	1.00	28.89	O
ATOM	8186	N	LYS	C	288	38.510	18.758	55.001	1.00	30.57	N
ATOM	8187	CA	LYS	C	288	38.179	17.343	54.791	1.00	36.81	C
ATOM	8188	CB	LYS	C	288	36.727	17.189	54.315	1.00	42.03	C
ATOM	8189	CG	LYS	C	288	36.240	15.738	54.239	1.00	46.30	C
ATOM	8190	CD	LYS	C	288	34.730	15.637	54.418	1.00	53.03	C
ATOM	8191	CE	LYS	C	288	34.186	14.343	53.819	1.00	55.60	C
ATOM	8192	NZ	LYS	C	288	33.949	14.460	52.347	1.00	57.47	N
ATOM	8193	C	LYS	C	288	39.141	16.698	53.784	1.00	35.10	C
ATOM	8194	O	LYS	C	288	39.418	15.496	53.850	1.00	34.42	O
ATOM	8195	N	CYS	C	289	39.645	17.510	52.857	1.00	34.86	N
ATOM	8196	CA	CYS	C	289	40.660	17.077	51.900	1.00	31.43	C
ATOM	8197	CB	CYS	C	289	40.958	18.198	50.908	1.00	31.88	C
ATOM	8198	SG	CYS	C	289	39.550	18.673	49.887	1.00	35.55	S
ATOM	8199	C	CYS	C	289	41.939	16.658	52.617	1.00	31.12	C
ATOM	8200	O	CYS	C	289	42.525	15.620	52.300	1.00	32.32	O
ATOM	8201	N	VAL	C	290	42.363	17.472	53.583	1.00	30.50	N
ATOM	8202	CA	VAL	C	290	43.504	17.153	54.442	1.00	31.14	C
ATOM	8203	CB	VAL	C	290	43.817	18.312	55.435	1.00	30.38	C
ATOM	8204	CG1	VAL	C	290	44.990	17.962	56.335	1.00	31.91	C
ATOM	8205	CG2	VAL	C	290	44.102	19.606	54.678	1.00	27.09	C
ATOM	8206	C	VAL	C	290	43.250	15.850	55.202	1.00	32.02	C
ATOM	8207	O	VAL	C	290	44.133	14.982	55.280	1.00	31.94	O
ATOM	8208	N	GLU	C	291	42.042	15.723	55.753	1.00	31.71	N
ATOM	8209	CA	GLU	C	291	41.629	14.530	56.487	1.00	34.68	C
ATOM	8210	CB	GLU	C	291	40.198	14.693	57.012	1.00	40.12	C
ATOM	8211	CG	GLU	C	291	40.018	14.306	58.472	1.00	50.33	C
ATOM	8212	CD	GLU	C	291	38.709	14.810	59.060	1.00	57.09	C
ATOM	8213	OE1	GLU	C	291	37.639	14.546	58.462	1.00	60.65	O
ATOM	8214	OE2	GLU	C	291	38.747	15.469	60.125	1.00	58.67	O
ATOM	8215	C	GLU	C	291	41.722	13.282	55.609	1.00	32.89	C
ATOM	8216	O	GLU	C	291	42.289	12.269	56.021	1.00	31.14	O
ATOM	8217	N	VAL	C	292	41.178	13.379	54.399	1.00	30.54	N
ATOM	8218	CA	VAL	C	292	41.183	12.275	53.440	1.00	33.46	C
ATOM	8219	CB	VAL	C	292	40.364	12.628	52.169	1.00	34.14	C
ATOM	8220	CG1	VAL	C	292	40.679	11.681	51.011	1.00	36.49	C
ATOM	8221	CG2	VAL	C	292	38.869	12.601	52.481	1.00	33.60	C
ATOM	8222	C	VAL	C	292	42.612	11.828	53.105	1.00	33.26	C
ATOM	8223	O	VAL	C	292	42.922	10.636	53.167	1.00	33.34	O
ATOM	8224	N	VAL	C	293	43.478	12.789	52.782	1.00	30.56	N
ATOM	8225	CA	VAL	C	293	44.886	12.503	52.480	1.00	30.95	C
ATOM	8226	CB	VAL	C	293	45.639	13.778	52.006	1.00	28.29	C
ATOM	8227	CG1	VAL	C	293	47.133	13.507	51.833	1.00	26.02	C
ATOM	8228	CG2	VAL	C	293	45.048	14.276	50.712	1.00	25.73	C
ATOM	8229	C	VAL	C	293	45.605	11.846	53.664	1.00	31.43	C
ATOM	8230	O	VAL	C	293	46.346	10.875	53.489	1.00	29.13	O
ATOM	8231	N	LYS	C	294	45.357	12.373	54.861	1.00	33.87	N
ATOM	8232	CA	LYS	C	294	45.932	11.857	56.106	1.00	37.15	C
ATOM	8233	CB	LYS	C	294	45.380	12.651	57.293	1.00	40.01	C
ATOM	8234	CG	LYS	C	294	46.315	13.704	57.838	1.00	42.85	C
ATOM	8235	CD	LYS	C	294	45.800	14.243	59.163	1.00	45.28	C
ATOM	8236	CE	LYS	C	294	46.531	13.604	60.331	1.00	46.91	C
ATOM	8237	NZ	LYS	C	294	45.592	13.033	61.327	1.00	48.09	N

ATOM	8238	C	LYS	C	294	45.694	10.362	56.359	1.00	36.15	C
ATOM	8239	O	LYS	C	294	46.568	9.685	56.905	1.00	38.99	O
ATOM	8240	N	THR	C	295	44.521	9.856	55.967	1.00	36.58	N
ATOM	8241	CA	THR	C	295	44.133	8.470	56.272	1.00	41.63	C
ATOM	8242	CB	THR	C	295	42.627	8.205	55.990	1.00	42.30	C
ATOM	8243	OG1	THR	C	295	42.309	8.565	54.641	1.00	43.99	O
ATOM	8244	CG2	THR	C	295	41.734	9.106	56.834	1.00	44.39	C
ATOM	8245	C	THR	C	295	44.978	7.412	55.562	1.00	42.13	C
ATOM	8246	O	THR	C	295	44.929	6.235	55.925	1.00	43.13	O
ATOM	8247	N	PHE	C	296	45.749	7.825	54.558	1.00	38.67	N
ATOM	8248	CA	PHE	C	296	46.602	6.888	53.827	1.00	37.45	C
ATOM	8249	CB	PHE	C	296	46.757	7.317	52.362	1.00	36.64	C
ATOM	8250	CG	PHE	C	296	45.468	7.282	51.590	1.00	36.32	C
ATOM	8251	CD1	PHE	C	296	45.010	6.090	51.026	1.00	36.57	C
ATOM	8252	CE1	PHE	C	296	43.810	6.049	50.321	1.00	37.70	C
ATOM	8253	CZ	PHE	C	296	43.050	7.207	50.172	1.00	37.45	C
ATOM	8254	CE2	PHE	C	296	43.496	8.405	50.736	1.00	37.34	C
ATOM	8255	CD2	PHE	C	296	44.698	8.433	51.443	1.00	34.49	C
ATOM	8256	C	PHE	C	296	47.954	6.674	54.509	1.00	36.26	C
ATOM	8257	O	PHE	C	296	48.735	5.815	54.093	1.00	37.47	O
ATOM	8258	N	ASN	C	297	48.207	7.451	55.563	1.00	36.03	N
ATOM	8259	CA	ASN	C	297	49.383	7.296	56.430	1.00	38.21	C
ATOM	8260	CB	ASN	C	297	49.276	6.019	57.278	1.00	43.25	C
ATOM	8261	CG	ASN	C	297	48.108	6.061	58.247	1.00	47.88	C
ATOM	8262	OD1	ASN	C	297	48.139	6.781	59.244	1.00	49.17	O
ATOM	8263	ND2	ASN	C	297	47.067	5.292	57.951	1.00	49.38	N
ATOM	8264	C	ASN	C	297	50.727	7.364	55.703	1.00	38.07	C
ATOM	8265	O	ASN	C	297	51.667	6.619	56.017	1.00	36.95	O
ATOM	8266	N	LEU	C	298	50.805	8.271	54.734	1.00	33.92	N
ATOM	8267	CA	LEU	C	298	52.029	8.505	53.978	1.00	31.96	C
ATOM	8268	CB	LEU	C	298	51.712	8.591	52.481	1.00	32.36	C
ATOM	8269	CG	LEU	C	298	51.259	7.299	51.786	1.00	31.43	C
ATOM	8270	CD1	LEU	C	298	50.695	7.598	50.410	1.00	29.08	C
ATOM	8271	CD2	LEU	C	298	52.396	6.288	51.701	1.00	31.17	C
ATOM	8272	C	LEU	C	298	52.682	9.799	54.455	1.00	29.64	C
ATOM	8273	O	LEU	C	298	51.972	10.729	54.854	1.00	28.28	O
ATOM	8274	N	PRO	C	299	54.018	9.864	54.424	1.00	28.27	N
ATOM	8275	CA	PRO	C	299	54.732	11.110	54.728	1.00	27.47	C
ATOM	8276	CB	PRO	C	299	56.144	10.840	54.209	1.00	27.93	C
ATOM	8277	CG	PRO	C	299	56.313	9.359	54.357	1.00	32.17	C
ATOM	8278	CD	PRO	C	299	54.948	8.763	54.104	1.00	30.66	C
ATOM	8279	C	PRO	C	299	54.097	12.250	53.952	1.00	26.74	C
ATOM	8280	O	PRO	C	299	53.844	12.109	52.751	1.00	25.90	O
ATOM	8281	N	LEU	C	300	53.820	13.354	54.634	1.00	25.46	N
ATOM	8282	CA	LEU	C	300	52.996	14.401	54.051	1.00	24.61	C
ATOM	8283	CB	LEU	C	300	51.571	14.321	54.615	1.00	28.92	C
ATOM	8284	CG	LEU	C	300	50.543	15.394	54.245	1.00	28.04	C
ATOM	8285	CD1	LEU	C	300	50.297	15.449	52.736	1.00	28.48	C
ATOM	8286	CD2	LEU	C	300	49.238	15.132	54.985	1.00	30.82	C
ATOM	8287	C	LEU	C	300	53.575	15.790	54.267	1.00	25.23	C
ATOM	8288	O	LEU	C	300	53.848	16.192	55.399	1.00	25.15	O
ATOM	8289	N	LEU	C	301	53.759	16.510	53.164	1.00	21.49	N
ATOM	8290	CA	LEU	C	301	54.150	17.912	53.201	1.00	20.74	C
ATOM	8291	CB	LEU	C	301	55.304	18.179	52.219	1.00	23.24	C
ATOM	8292	CG	LEU	C	301	55.852	19.611	52.093	1.00	25.06	C
ATOM	8293	CD1	LEU	C	301	56.530	20.101	53.379	1.00	22.54	C
ATOM	8294	CD2	LEU	C	301	56.813	19.715	50.911	1.00	22.94	C
ATOM	8295	C	LEU	C	301	52.932	18.749	52.849	1.00	21.05	C
ATOM	8296	O	LEU	C	301	52.361	18.594	51.772	1.00	23.29	O
ATOM	8297	N	MET	C	302	52.521	19.618	53.774	1.00	21.69	N
ATOM	8298	CA	MET	C	302	51.359	20.473	53.561	1.00	21.29	C
ATOM	8299	CB	MET	C	302	50.388	20.389	54.744	1.00	27.46	C
ATOM	8300	CG	MET	C	302	49.780	19.010	54.979	1.00	32.03	C

ATOM	8301	SD	MET	C	302	48.944	18.906	56.588	1.00	40.42	S
ATOM	8302	CE	MET	C	302	47.817	20.334	56.455	1.00	30.58	C
ATOM	8303	C	MET	C	302	51.808	21.917	53.365	1.00	21.90	C
ATOM	8304	O	MET	C	302	52.554	22.460	54.184	1.00	21.74	O
ATOM	8305	N	LEU	C	303	51.335	22.530	52.286	1.00	21.80	N
ATOM	8306	CA	LEU	C	303	51.774	23.865	51.883	1.00	23.91	C
ATOM	8307	CB	LEU	C	303	52.579	23.779	50.577	1.00	20.98	C
ATOM	8308	CG	LEU	C	303	53.778	22.826	50.602	1.00	22.27	C
ATOM	8309	CD1	LEU	C	303	54.353	22.612	49.213	1.00	21.27	C
ATOM	8310	CD2	LEU	C	303	54.855	23.343	51.565	1.00	23.23	C
ATOM	8311	C	LEU	C	303	50.596	24.802	51.696	1.00	24.83	C
ATOM	8312	O	LEU	C	303	49.462	24.358	51.495	1.00	25.87	O
ATOM	8313	N	GLY	C	304	50.872	26.104	51.745	1.00	23.97	N
ATOM	8314	CA	GLY	C	304	49.853	27.108	51.500	1.00	20.69	C
ATOM	8315	C	GLY	C	304	49.605	27.321	50.022	1.00	21.16	C
ATOM	8316	O	GLY	C	304	49.641	26.379	49.243	1.00	26.61	O
ATOM	8317	N	GLY	C	305	49.355	28.563	49.633	1.00	22.00	N
ATOM	8318	CA	GLY	C	305	49.013	28.884	48.259	1.00	22.76	C
ATOM	8319	C	GLY	C	305	48.191	30.153	48.221	1.00	25.11	C
ATOM	8320	O	GLY	C	305	48.411	31.055	49.029	1.00	24.31	O
ATOM	8321	N	GLY	C	306	47.241	30.218	47.293	1.00	24.44	N
ATOM	8322	CA	GLY	C	306	46.344	31.358	47.177	1.00	23.55	C
ATOM	8323	C	GLY	C	306	45.467	31.536	48.403	1.00	24.84	C
ATOM	8324	O	GLY	C	306	45.424	30.675	49.289	1.00	26.96	O
ATOM	8325	N	GLY	C	307	44.771	32.665	48.456	1.00	25.02	N
ATOM	8326	CA	GLY	C	307	43.872	32.968	49.559	1.00	23.82	C
ATOM	8327	C	GLY	C	307	43.910	34.458	49.799	1.00	26.96	C
ATOM	8328	O	GLY	C	307	44.945	34.987	50.211	1.00	22.52	O
ATOM	8329	N	TYR	C	308	42.793	35.136	49.541	1.00	23.76	N
ATOM	8330	CA	TYR	C	308	42.814	36.597	49.416	1.00	27.77	C
ATOM	8331	CB	TYR	C	308	42.693	36.989	47.940	1.00	26.83	C
ATOM	8332	CG	TYR	C	308	43.753	36.283	47.117	1.00	28.07	C
ATOM	8333	CD1	TYR	C	308	43.452	35.127	46.388	1.00	26.78	C
ATOM	8334	CE1	TYR	C	308	44.442	34.458	45.660	1.00	26.57	C
ATOM	8335	CZ	TYR	C	308	45.744	34.945	45.679	1.00	29.46	C
ATOM	8336	OH	TYR	C	308	46.737	34.306	44.982	1.00	29.72	O
ATOM	8337	CE2	TYR	C	308	46.066	36.076	46.408	1.00	28.66	C
ATOM	8338	CD2	TYR	C	308	45.076	36.730	47.127	1.00	27.76	C
ATOM	8339	C	TYR	C	308	41.813	37.327	50.312	1.00	29.75	C
ATOM	8340	O	TYR	C	308	41.809	38.563	50.395	1.00	28.15	O
ATOM	8341	N	THR	C	309	40.972	36.546	50.978	1.00	25.30	N
ATOM	8342	CA	THR	C	309	40.192	37.033	52.105	1.00	27.14	C
ATOM	8343	CB	THR	C	309	38.749	36.516	52.006	1.00	23.72	C
ATOM	8344	OG1	THR	C	309	38.129	37.116	50.866	1.00	23.76	O
ATOM	8345	CG2	THR	C	309	37.907	37.015	53.170	1.00	27.85	C
ATOM	8346	C	THR	C	309	40.913	36.508	53.333	1.00	24.55	C
ATOM	8347	O	THR	C	309	40.725	35.358	53.737	1.00	27.78	O
ATOM	8348	N	ILE	C	310	41.763	37.356	53.911	1.00	24.18	N
ATOM	8349	CA	ILE	C	310	42.811	36.867	54.802	1.00	24.94	C
ATOM	8350	CB	ILE	C	310	43.986	37.884	54.944	1.00	30.16	C
ATOM	8351	CG1	ILE	C	310	43.556	39.153	55.687	1.00	31.78	C
ATOM	8352	CD1	ILE	C	310	44.703	40.139	55.940	1.00	38.21	C
ATOM	8353	CG2	ILE	C	310	44.586	38.210	53.564	1.00	31.59	C
ATOM	8354	C	ILE	C	310	42.311	36.337	56.148	1.00	24.14	C
ATOM	8355	O	ILE	C	310	42.940	35.459	56.733	1.00	25.35	O
ATOM	8356	N	ARG	C	311	41.173	36.842	56.626	1.00	25.85	N
ATOM	8357	CA	ARG	C	311	40.578	36.286	57.842	1.00	28.37	C
ATOM	8358	CB	ARG	C	311	39.365	37.103	58.323	1.00	30.47	C
ATOM	8359	CG	ARG	C	311	38.216	37.214	57.335	1.00	33.72	C
ATOM	8360	CD	ARG	C	311	37.079	38.113	57.802	1.00	39.28	C
ATOM	8361	NE	ARG	C	311	36.342	38.683	56.675	1.00	43.97	N
ATOM	8362	CZ	ARG	C	311	35.250	38.153	56.141	1.00	45.14	C
ATOM	8363	NH1	ARG	C	311	34.738	37.026	56.628	1.00	49.98	N

ATOM	8364	NH2	ARG	C	311	34.662	38.751	55.116	1.00	46.49	N
ATOM	8365	C	ARG	C	311	40.211	34.812	57.639	1.00	25.42	C
ATOM	8366	O	ARG	C	311	40.403	33.993	58.537	1.00	25.65	O
ATOM	8367	N	ASN	C	312	39.710	34.480	56.451	1.00	24.42	N
ATOM	8368	CA	ASN	C	312	39.326	33.099	56.143	1.00	27.36	C
ATOM	8369	CB	ASN	C	312	38.312	33.056	54.998	1.00	26.48	C
ATOM	8370	CG	ASN	C	312	36.979	33.675	55.384	1.00	29.35	C
ATOM	8371	OD1	ASN	C	312	36.667	33.810	56.572	1.00	31.57	O
ATOM	8372	ND2	ASN	C	312	36.192	34.065	54.388	1.00	30.14	N
ATOM	8373	C	ASN	C	312	40.521	32.184	55.875	1.00	26.47	C
ATOM	8374	O	ASN	C	312	40.485	30.994	56.199	1.00	27.55	O
ATOM	8375	N	VAL	C	313	41.587	32.747	55.314	1.00	28.64	N
ATOM	8376	CA	VAL	C	313	42.835	32.002	55.128	1.00	23.01	C
ATOM	8377	CB	VAL	C	313	43.876	32.834	54.344	1.00	26.01	C
ATOM	8378	CG1	VAL	C	313	45.243	32.154	54.338	1.00	25.30	C
ATOM	8379	CG2	VAL	C	313	43.400	33.060	52.933	1.00	19.87	C
ATOM	8380	C	VAL	C	313	43.398	31.589	56.486	1.00	26.54	C
ATOM	8381	O	VAL	C	313	43.768	30.426	56.698	1.00	25.19	O
ATOM	8382	N	ALA	C	314	43.436	32.545	57.413	1.00	23.30	N
ATOM	8383	CA	ALA	C	314	43.903	32.279	58.767	1.00	25.85	C
ATOM	8384	CB	ALA	C	314	43.874	33.560	59.612	1.00	24.53	C
ATOM	8385	C	ALA	C	314	43.077	31.169	59.419	1.00	22.71	C
ATOM	8386	O	ALA	C	314	43.639	30.267	60.041	1.00	27.68	O
ATOM	8387	N	ARG	C	315	41.754	31.231	59.261	1.00	24.64	N
ATOM	8388	CA	ARG	C	315	40.856	30.202	59.796	1.00	26.07	C
ATOM	8389	CB	ARG	C	315	39.398	30.546	59.498	1.00	26.37	C
ATOM	8390	CG	ARG	C	315	38.814	31.678	60.314	1.00	29.61	C
ATOM	8391	CD	ARG	C	315	37.536	32.235	59.711	1.00	28.44	C
ATOM	8392	NE	ARG	C	315	36.728	32.924	60.712	1.00	31.85	N
ATOM	8393	CZ	ARG	C	315	36.136	34.099	60.526	1.00	32.64	C
ATOM	8394	NH1	ARG	C	315	35.425	34.639	61.512	1.00	32.15	N
ATOM	8395	NH2	ARG	C	315	36.243	34.737	59.366	1.00	29.26	N
ATOM	8396	C	ARG	C	315	41.161	28.841	59.172	1.00	22.89	C
ATOM	8397	O	ARG	C	315	41.313	27.841	59.876	1.00	24.17	O
ATOM	8398	N	CYS	C	316	41.242	28.831	57.843	1.00	23.64	N
ATOM	8399	CA	CYS	C	316	41.482	27.618	57.065	1.00	24.73	C
ATOM	8400	CB	CYS	C	316	41.552	27.952	55.573	1.00	26.69	C
ATOM	8401	SG	CYS	C	316	41.290	26.544	54.470	1.00	30.04	S
ATOM	8402	C	CYS	C	316	42.751	26.893	57.502	1.00	25.39	C
ATOM	8403	O	CYS	C	316	42.699	25.732	57.896	1.00	23.75	O
ATOM	8404	N	TRP	C	317	43.889	27.582	57.445	1.00	23.33	N
ATOM	8405	CA	TRP	C	317	45.164	26.935	57.746	1.00	24.51	C
ATOM	8406	CB	TRP	C	317	46.332	27.739	57.175	1.00	23.81	C
ATOM	8407	CG	TRP	C	317	46.293	27.797	55.662	1.00	25.22	C
ATOM	8408	CD1	TRP	C	317	45.608	26.956	54.822	1.00	26.01	C
ATOM	8409	NE1	TRP	C	317	45.813	27.321	53.512	1.00	26.68	N
ATOM	8410	CE2	TRP	C	317	46.642	28.412	53.478	1.00	24.30	C
ATOM	8411	CD2	TRP	C	317	46.962	28.742	54.820	1.00	22.41	C
ATOM	8412	CE3	TRP	C	317	47.813	29.832	55.058	1.00	22.65	C
ATOM	8413	CZ3	TRP	C	317	48.301	30.556	53.964	1.00	25.31	C
ATOM	8414	CH2	TRP	C	317	47.956	30.204	52.648	1.00	23.16	C
ATOM	8415	CZ2	TRP	C	317	47.125	29.141	52.385	1.00	23.29	C
ATOM	8416	C	TRP	C	317	45.356	26.604	59.226	1.00	24.23	C
ATOM	8417	O	TRP	C	317	46.081	25.668	59.564	1.00	24.12	O
ATOM	8418	N	THR	C	318	44.696	27.365	60.100	1.00	25.22	N
ATOM	8419	CA	THR	C	318	44.627	27.014	61.520	1.00	25.36	C
ATOM	8420	CB	THR	C	318	43.884	28.109	62.312	1.00	28.36	C
ATOM	8421	OG1	THR	C	318	44.701	29.282	62.367	1.00	28.30	O
ATOM	8422	CG2	THR	C	318	43.721	27.712	63.782	1.00	30.23	C
ATOM	8423	C	THR	C	318	43.923	25.670	61.707	1.00	22.36	C
ATOM	8424	O	THR	C	318	44.442	24.771	62.381	1.00	24.76	O
ATOM	8425	N	TYR	C	319	42.742	25.549	61.108	1.00	23.19	N
ATOM	8426	CA	TYR	C	319	41.941	24.343	61.246	1.00	28.45	C

ATOM	8427	CB	TYR	C	319	40.547	24.533	60.647	1.00	30.63	C
ATOM	8428	CG	TYR	C	319	39.605	23.392	60.961	1.00	33.37	C
ATOM	8429	CD1	TYR	C	319	39.354	23.008	62.283	1.00	35.05	C
ATOM	8430	CE1	TYR	C	319	38.488	21.950	62.575	1.00	38.13	C
ATOM	8431	CZ	TYR	C	319	37.870	21.269	61.537	1.00	40.49	C
ATOM	8432	OH	TYR	C	319	37.014	20.226	61.812	1.00	42.40	O
ATOM	8433	CE2	TYR	C	319	38.105	21.632	60.221	1.00	37.55	C
ATOM	8434	CD2	TYR	C	319	38.972	22.689	59.942	1.00	36.45	C
ATOM	8435	C	TYR	C	319	42.646	23.158	60.599	1.00	32.30	C
ATOM	8436	O	TYR	C	319	42.611	22.043	61.126	1.00	31.07	O
ATOM	8437	N	GLU	C	320	43.306	23.412	59.472	1.00	28.79	N
ATOM	8438	CA	GLU	C	320	44.046	22.364	58.781	1.00	28.13	C
ATOM	8439	CB	GLU	C	320	44.311	22.752	57.318	1.00	30.85	C
ATOM	8440	CG	GLU	C	320	43.032	22.616	56.494	1.00	31.27	C
ATOM	8441	CD	GLU	C	320	43.058	23.256	55.117	1.00	34.25	C
ATOM	8442	OE1	GLU	C	320	44.011	23.989	54.777	1.00	33.04	O
ATOM	8443	OE2	GLU	C	320	42.093	23.017	54.358	1.00	36.70	O
ATOM	8444	C	GLU	C	320	45.287	21.909	59.555	1.00	27.42	C
ATOM	8445	O	GLU	C	320	45.651	20.737	59.495	1.00	30.99	O
ATOM	8446	N	THR	C	321	45.901	22.815	60.319	1.00	27.18	N
ATOM	8447	CA	THR	C	321	46.977	22.438	61.239	1.00	27.40	C
ATOM	8448	CB	THR	C	321	47.675	23.692	61.831	1.00	26.91	C
ATOM	8449	OG1	THR	C	321	48.178	24.514	60.767	1.00	28.72	O
ATOM	8450	CG2	THR	C	321	48.935	23.314	62.586	1.00	28.08	C
ATOM	8451	C	THR	C	321	46.418	21.546	62.356	1.00	28.31	C
ATOM	8452	O	THR	C	321	47.030	20.540	62.725	1.00	30.60	O
ATOM	8453	N	ALA	C	322	45.244	21.913	62.865	1.00	28.58	N
ATOM	8454	CA	ALA	C	322	44.563	21.130	63.893	1.00	29.50	C
ATOM	8455	CB	ALA	C	322	43.335	21.873	64.398	1.00	27.76	C
ATOM	8456	C	ALA	C	322	44.195	19.730	63.387	1.00	30.46	C
ATOM	8457	O	ALA	C	322	44.348	18.749	64.115	1.00	31.98	O
ATOM	8458	N	VAL	C	323	43.729	19.649	62.140	1.00	32.98	N
ATOM	8459	CA	VAL	C	323	43.435	18.367	61.488	1.00	33.03	C
ATOM	8460	CB	VAL	C	323	42.818	18.566	60.077	1.00	34.28	C
ATOM	8461	CG1	VAL	C	323	42.842	17.263	59.267	1.00	36.51	C
ATOM	8462	CG2	VAL	C	323	41.390	19.084	60.182	1.00	33.51	C
ATOM	8463	C	VAL	C	323	44.687	17.475	61.426	1.00	36.88	C
ATOM	8464	O	VAL	C	323	44.634	16.291	61.782	1.00	36.53	O
ATOM	8465	N	ALA	C	324	45.807	18.053	60.996	1.00	35.61	N
ATOM	8466	CA	ALA	C	324	47.090	17.350	60.972	1.00	35.88	C
ATOM	8467	CB	ALA	C	324	48.201	18.272	60.464	1.00	37.43	C
ATOM	8468	C	ALA	C	324	47.458	16.787	62.344	1.00	38.24	C
ATOM	8469	O	ALA	C	324	47.997	15.680	62.447	1.00	35.86	O
ATOM	8470	N	LEU	C	325	47.152	17.550	63.391	1.00	36.01	N
ATOM	8471	CA	LEU	C	325	47.492	17.166	64.760	1.00	40.20	C
ATOM	8472	CB	LEU	C	325	47.765	18.417	65.605	1.00	38.38	C
ATOM	8473	CG	LEU	C	325	49.002	19.261	65.297	1.00	38.03	C
ATOM	8474	CD1	LEU	C	325	48.823	20.658	65.858	1.00	35.65	C
ATOM	8475	CD2	LEU	C	325	50.256	18.616	65.867	1.00	38.43	C
ATOM	8476	C	LEU	C	325	46.426	16.305	65.451	1.00	40.24	C
ATOM	8477	O	LEU	C	325	46.590	15.946	66.620	1.00	43.40	O
ATOM	8478	N	ASP	C	326	45.352	15.978	64.730	1.00	44.20	N
ATOM	8479	CA	ASP	C	326	44.185	15.278	65.292	1.00	49.09	C
ATOM	8480	CB	ASP	C	326	44.509	13.811	65.611	1.00	51.36	C
ATOM	8481	CG	ASP	C	326	44.542	12.937	64.374	1.00	54.85	C
ATOM	8482	OD1	ASP	C	326	45.484	12.125	64.247	1.00	57.40	O
ATOM	8483	OD2	ASP	C	326	43.674	12.985	63.476	1.00	56.93	O
ATOM	8484	C	ASP	C	326	43.644	15.999	66.531	1.00	50.29	C
ATOM	8485	O	ASP	C	326	43.376	15.384	67.569	1.00	47.29	O
ATOM	8486	N	CYS	C	327	43.486	17.311	66.402	1.00	49.92	N
ATOM	8487	CA	CYS	C	327	43.100	18.160	67.515	1.00	53.49	C
ATOM	8488	CB	CYS	C	327	44.250	19.106	67.871	1.00	55.45	C
ATOM	8489	SG	CYS	C	327	44.170	19.826	69.526	1.00	63.76	S

ATOM	8490	C	CYS	C	327	41.855	18.946	67.141	1.00	53.25	C
ATOM	8491	O	CYS	C	327	41.941	19.977	66.473	1.00	54.36	O
ATOM	8492	N	GLU	C	328	40.694	18.444	67.554	1.00	52.30	N
ATOM	8493	CA	GLU	C	328	39.442	19.148	67.311	1.00	52.70	C
ATOM	8494	CB	GLU	C	328	38.231	18.237	67.541	1.00	55.40	C
ATOM	8495	CG	GLU	C	328	36.889	18.877	67.207	1.00	60.34	C
ATOM	8496	CD	GLU	C	328	36.721	19.167	65.725	1.00	64.30	C
ATOM	8497	OE1	GLU	C	328	36.976	20.319	65.306	1.00	65.17	O
ATOM	8498	OE2	GLU	C	328	36.328	18.244	64.979	1.00	66.01	O
ATOM	8499	C	GLU	C	328	39.395	20.384	68.203	1.00	52.07	C
ATOM	8500	O	GLU	C	328	39.210	20.283	69.419	1.00	55.49	O
ATOM	8501	N	ILE	C	329	39.594	21.544	67.586	1.00	46.54	N
ATOM	8502	CA	ILE	C	329	39.683	22.809	68.315	1.00	41.76	C
ATOM	8503	CB	ILE	C	329	40.785	23.730	67.705	1.00	37.62	C
ATOM	8504	CG1	ILE	C	329	40.618	23.872	66.186	1.00	37.69	C
ATOM	8505	CD1	ILE	C	329	41.455	24.993	65.566	1.00	37.31	C
ATOM	8506	CG2	ILE	C	329	42.177	23.210	68.086	1.00	36.35	C
ATOM	8507	C	ILE	C	329	38.325	23.510	68.380	1.00	39.05	C
ATOM	8508	O	ILE	C	329	37.508	23.347	67.474	1.00	40.28	O
ATOM	8509	N	PRO	C	330	38.082	24.274	69.448	1.00	39.42	N
ATOM	8510	CA	PRO	C	330	36.784	24.935	69.655	1.00	39.82	C
ATOM	8511	CB	PRO	C	330	36.973	25.675	70.984	1.00	39.09	C
ATOM	8512	CG	PRO	C	330	38.108	24.989	71.652	1.00	41.56	C
ATOM	8513	CD	PRO	C	330	39.022	24.559	70.549	1.00	40.96	C
ATOM	8514	C	PRO	C	330	36.439	25.931	68.548	1.00	39.03	C
ATOM	8515	O	PRO	C	330	37.335	26.594	68.016	1.00	38.11	O
ATOM	8516	N	ASN	C	331	35.154	26.022	68.211	1.00	36.42	N
ATOM	8517	CA	ASN	C	331	34.674	26.968	67.206	1.00	34.58	C
ATOM	8518	CB	ASN	C	331	33.208	26.694	66.856	1.00	36.22	C
ATOM	8519	CG	ASN	C	331	32.746	27.460	65.624	1.00	37.46	C
ATOM	8520	OD1	ASN	C	331	33.508	27.651	64.670	1.00	37.09	O
ATOM	8521	ND2	ASN	C	331	31.495	27.904	65.638	1.00	34.95	N
ATOM	8522	C	ASN	C	331	34.838	28.423	67.635	1.00	35.55	C
ATOM	8523	O	ASN	C	331	34.972	29.311	66.795	1.00	36.91	O
ATOM	8524	N	GLU	C	332	34.810	28.656	68.945	1.00	34.21	N
ATOM	8525	CA	GLU	C	332	35.028	29.984	69.508	1.00	34.85	C
ATOM	8526	CB	GLU	C	332	34.567	30.030	70.971	1.00	40.46	C
ATOM	8527	CG	GLU	C	332	33.058	29.939	71.164	1.00	45.24	C
ATOM	8528	CD	GLU	C	332	32.512	28.543	70.914	1.00	50.50	C
ATOM	8529	OE1	GLU	C	332	31.511	28.422	70.172	1.00	52.83	O
ATOM	8530	OE2	GLU	C	332	33.087	27.567	71.452	1.00	52.24	O
ATOM	8531	C	GLU	C	332	36.509	30.319	69.410	1.00	32.41	C
ATOM	8532	O	GLU	C	332	37.349	29.621	69.987	1.00	33.80	O
ATOM	8533	N	LEU	C	333	36.827	31.380	68.670	1.00	30.05	N
ATOM	8534	CA	LEU	C	333	38.215	31.815	68.514	1.00	30.56	C
ATOM	8535	CB	LEU	C	333	38.314	32.934	67.473	1.00	31.86	C
ATOM	8536	CG	LEU	C	333	38.074	32.557	66.013	1.00	33.66	C
ATOM	8537	CD1	LEU	C	333	37.955	33.807	65.179	1.00	33.35	C
ATOM	8538	CD2	LEU	C	333	39.183	31.652	65.472	1.00	34.63	C
ATOM	8539	C	LEU	C	333	38.811	32.295	69.836	1.00	30.79	C
ATOM	8540	O	LEU	C	333	38.128	32.952	70.616	1.00	32.89	O
ATOM	8541	N	PRO	C	334	40.073	31.960	70.096	1.00	32.79	N
ATOM	8542	CA	PRO	C	334	40.766	32.501	71.265	1.00	32.39	C
ATOM	8543	CB	PRO	C	334	42.007	31.618	71.380	1.00	33.56	C
ATOM	8544	CG	PRO	C	334	42.273	31.146	69.978	1.00	35.90	C
ATOM	8545	CD	PRO	C	334	40.940	31.068	69.304	1.00	33.11	C
ATOM	8546	C	PRO	C	334	41.159	33.936	70.952	1.00	33.60	C
ATOM	8547	O	PRO	C	334	41.241	34.303	69.771	1.00	31.89	O
ATOM	8548	N	TYR	C	335	41.381	34.749	71.978	1.00	31.33	N
ATOM	8549	CA	TYR	C	335	41.855	36.093	71.725	1.00	29.19	C
ATOM	8550	CB	TYR	C	335	41.972	36.921	73.003	1.00	27.53	C
ATOM	8551	CG	TYR	C	335	42.297	38.360	72.695	1.00	25.81	C
ATOM	8552	CD1	TYR	C	335	43.604	38.845	72.791	1.00	29.54	C

ATOM	8553	CE1	TYR	C	335	43.900	40.162	72.478	1.00	29.98	C
ATOM	8554	CZ	TYR	C	335	42.877	40.996	72.055	1.00	29.81	C
ATOM	8555	OH	TYR	C	335	43.130	42.304	71.731	1.00	36.01	O
ATOM	8556	CE2	TYR	C	335	41.584	40.528	71.946	1.00	29.63	C
ATOM	8557	CD2	TYR	C	335	41.301	39.224	72.261	1.00	28.71	C
ATOM	8558	C	TYR	C	335	43.205	36.016	71.022	1.00	30.83	C
ATOM	8559	O	TYR	C	335	44.013	35.137	71.311	1.00	32.65	O
ATOM	8560	N	ASN	C	336	43.426	36.935	70.091	1.00	32.83	N
ATOM	8561	CA	ASN	C	336	44.679	37.006	69.353	1.00	34.43	C
ATOM	8562	CB	ASN	C	336	44.664	36.019	68.172	1.00	32.04	C
ATOM	8563	CG	ASN	C	336	43.570	36.320	67.175	1.00	32.29	C
ATOM	8564	OD1	ASN	C	336	43.749	37.142	66.282	1.00	32.64	O
ATOM	8565	ND2	ASN	C	336	42.423	35.665	67.329	1.00	29.81	N
ATOM	8566	C	ASN	C	336	44.963	38.435	68.892	1.00	33.05	C
ATOM	8567	O	ASN	C	336	44.099	39.311	68.999	1.00	31.87	O
ATOM	8568	N	ASP	C	337	46.170	38.661	68.377	1.00	36.08	N
ATOM	8569	CA	ASP	C	337	46.605	39.994	67.946	1.00	40.47	C
ATOM	8570	CB	ASP	C	337	48.084	39.968	67.549	1.00	44.94	C
ATOM	8571	CG	ASP	C	337	48.999	39.725	68.729	1.00	50.05	C
ATOM	8572	OD1	ASP	C	337	48.665	40.169	69.849	1.00	52.95	O
ATOM	8573	OD2	ASP	C	337	50.076	39.101	68.629	1.00	52.85	O
ATOM	8574	C	ASP	C	337	45.782	40.589	66.806	1.00	37.80	C
ATOM	8575	O	ASP	C	337	45.880	41.785	66.526	1.00	35.43	O
ATOM	8576	N	TYR	C	338	44.976	39.752	66.154	1.00	36.18	N
ATOM	8577	CA	TYR	C	338	44.172	40.175	65.009	1.00	36.49	C
ATOM	8578	CB	TYR	C	338	44.707	39.524	63.723	1.00	38.72	C
ATOM	8579	CG	TYR	C	338	46.193	39.753	63.541	1.00	41.96	C
ATOM	8580	CD1	TYR	C	338	47.120	38.779	63.914	1.00	41.96	C
ATOM	8581	CE1	TYR	C	338	48.488	38.994	63.771	1.00	44.34	C
ATOM	8582	CZ	TYR	C	338	48.938	40.200	63.254	1.00	48.33	C
ATOM	8583	OH	TYR	C	338	50.288	40.419	63.107	1.00	50.63	O
ATOM	8584	CE2	TYR	C	338	48.037	41.189	62.888	1.00	47.29	C
ATOM	8585	CD2	TYR	C	338	46.672	40.961	63.034	1.00	45.76	C
ATOM	8586	C	TYR	C	338	42.691	39.874	65.218	1.00	34.69	C
ATOM	8587	O	TYR	C	338	41.928	39.761	64.257	1.00	32.26	O
ATOM	8588	N	PHE	C	339	42.297	39.786	66.489	1.00	33.64	N
ATOM	8589	CA	PHE	C	339	40.952	39.364	66.890	1.00	33.03	C
ATOM	8590	CB	PHE	C	339	40.798	39.454	68.413	1.00	33.42	C
ATOM	8591	CG	PHE	C	339	39.600	38.721	68.950	1.00	34.26	C
ATOM	8592	CD1	PHE	C	339	38.468	39.420	69.355	1.00	36.45	C
ATOM	8593	CE1	PHE	C	339	37.356	38.750	69.861	1.00	36.86	C
ATOM	8594	CZ	PHE	C	339	37.374	37.356	69.962	1.00	37.50	C
ATOM	8595	CE2	PHE	C	339	38.500	36.650	69.561	1.00	34.28	C
ATOM	8596	CD2	PHE	C	339	39.605	37.331	69.060	1.00	33.51	C
ATOM	8597	C	PHE	C	339	39.813	40.113	66.192	1.00	32.32	C
ATOM	8598	O	PHE	C	339	38.808	39.505	65.817	1.00	30.54	O
ATOM	8599	N	GLU	C	340	39.983	41.422	66.009	1.00	32.55	N
ATOM	8600	CA	GLU	C	340	38.955	42.275	65.401	1.00	34.45	C
ATOM	8601	CB	GLU	C	340	39.331	43.757	65.558	1.00	35.59	C
ATOM	8602	CG	GLU	C	340	40.504	44.212	64.693	1.00	38.97	C
ATOM	8603	CD	GLU	C	340	41.859	44.064	65.370	1.00	43.04	C
ATOM	8604	OE1	GLU	C	340	42.000	43.243	66.305	1.00	43.35	O
ATOM	8605	OE2	GLU	C	340	42.799	44.779	64.962	1.00	46.15	O
ATOM	8606	C	GLU	C	340	38.659	41.951	63.927	1.00	35.57	C
ATOM	8607	O	GLU	C	340	37.576	42.260	63.428	1.00	37.95	O
ATOM	8608	N	TYR	C	341	39.627	41.338	63.244	1.00	39.03	N
ATOM	8609	CA	TYR	C	341	39.501	40.967	61.830	1.00	42.08	C
ATOM	8610	CB	TYR	C	341	40.853	40.487	61.294	1.00	47.90	C
ATOM	8611	CG	TYR	C	341	41.819	41.576	60.877	1.00	54.36	C
ATOM	8612	CD1	TYR	C	341	42.432	42.400	61.823	1.00	56.81	C
ATOM	8613	CE1	TYR	C	341	43.329	43.393	61.438	1.00	60.63	C
ATOM	8614	CZ	TYR	C	341	43.628	43.559	60.093	1.00	62.30	C
ATOM	8615	OH	TYR	C	341	44.515	44.535	59.701	1.00	65.85	O

ATOM	8616	CE2	TYR	C	341	43.041	42.745	59.136	1.00	60.87	C
ATOM	8617	CD2	TYR	C	341	42.145	41.759	59.532	1.00	56.88	C
ATOM	8618	C	TYR	C	341	38.482	39.845	61.629	1.00	39.93	C
ATOM	8619	O	TYR	C	341	37.985	39.635	60.521	1.00	41.18	O
ATOM	8620	N	PHE	C	342	38.182	39.131	62.709	1.00	36.70	N
ATOM	8621	CA	PHE	C	342	37.350	37.936	62.654	1.00	37.05	C
ATOM	8622	CB	PHE	C	342	37.946	36.853	63.548	1.00	35.37	C
ATOM	8623	CG	PHE	C	342	39.320	36.408	63.129	1.00	33.29	C
ATOM	8624	CD1	PHE	C	342	39.490	35.570	62.026	1.00	32.65	C
ATOM	8625	CE1	PHE	C	342	40.761	35.154	61.636	1.00	28.04	C
ATOM	8626	CZ	PHE	C	342	41.879	35.571	62.350	1.00	28.92	C
ATOM	8627	CE2	PHE	C	342	41.721	36.409	63.454	1.00	31.78	C
ATOM	8628	CD2	PHE	C	342	40.442	36.822	63.834	1.00	29.81	C
ATOM	8629	C	PHE	C	342	35.901	38.209	63.047	1.00	39.88	C
ATOM	8630	O	PHE	C	342	35.114	37.277	63.226	1.00	37.14	O
ATOM	8631	N	GLY	C	343	35.557	39.490	63.170	1.00	41.44	N
ATOM	8632	CA	GLY	C	343	34.203	39.897	63.508	1.00	44.55	C
ATOM	8633	C	GLY	C	343	33.270	39.823	62.313	1.00	45.92	C
ATOM	8634	O	GLY	C	343	33.738	39.662	61.181	1.00	46.33	O
ATOM	8635	N	PRO	C	344	31.961	39.951	62.546	1.00	48.16	N
ATOM	8636	CA	PRO	C	344	31.397	40.167	63.886	1.00	48.81	C
ATOM	8637	CB	PRO	C	344	30.136	40.982	63.587	1.00	50.73	C
ATOM	8638	CG	PRO	C	344	29.704	40.522	62.213	1.00	50.48	C
ATOM	8639	CD	PRO	C	344	30.910	39.923	61.513	1.00	49.58	C
ATOM	8640	C	PRO	C	344	31.025	38.880	64.637	1.00	49.58	C
ATOM	8641	O	PRO	C	344	30.491	38.959	65.749	1.00	49.01	O
ATOM	8642	N	ASP	C	345	31.309	37.722	64.041	1.00	46.99	N
ATOM	8643	CA	ASP	C	345	30.943	36.430	64.624	1.00	43.81	C
ATOM	8644	CB	ASP	C	345	30.626	35.420	63.516	1.00	44.94	C
ATOM	8645	CG	ASP	C	345	31.812	35.171	62.597	1.00	44.06	C
ATOM	8646	OD1	ASP	C	345	32.007	35.955	61.643	1.00	44.07	O
ATOM	8647	OD2	ASP	C	345	32.612	34.227	62.768	1.00	42.52	O
ATOM	8648	C	ASP	C	345	32.013	35.865	65.564	1.00	41.00	C
ATOM	8649	O	ASP	C	345	31.687	35.187	66.542	1.00	43.10	O
ATOM	8650	N	PHE	C	346	33.283	36.134	65.250	1.00	38.71	N
ATOM	8651	CA	PHE	C	346	34.436	35.662	66.031	1.00	32.58	C
ATOM	8652	CB	PHE	C	346	34.511	36.382	67.382	1.00	35.82	C
ATOM	8653	CG	PHE	C	346	34.528	37.883	67.261	1.00	36.67	C
ATOM	8654	CD1	PHE	C	346	33.378	38.627	67.506	1.00	40.29	C
ATOM	8655	CE1	PHE	C	346	33.389	40.025	67.390	1.00	39.18	C
ATOM	8656	CZ	PHE	C	346	34.560	40.681	67.023	1.00	35.88	C
ATOM	8657	CE2	PHE	C	346	35.714	39.946	66.772	1.00	38.17	C
ATOM	8658	CD2	PHE	C	346	35.691	38.551	66.885	1.00	35.04	C
ATOM	8659	C	PHE	C	346	34.498	34.137	66.188	1.00	33.71	C
ATOM	8660	O	PHE	C	346	34.945	33.611	67.214	1.00	32.51	O
ATOM	8661	N	LYS	C	347	34.052	33.438	65.147	1.00	32.83	N
ATOM	8662	CA	LYS	C	347	34.085	31.977	65.120	1.00	32.84	C
ATOM	8663	CB	LYS	C	347	32.700	31.408	64.791	1.00	34.07	C
ATOM	8664	CG	LYS	C	347	31.577	31.872	65.726	1.00	37.23	C
ATOM	8665	CD	LYS	C	347	31.746	31.335	67.144	1.00	38.90	C
ATOM	8666	CE	LYS	C	347	30.538	31.668	68.014	1.00	44.03	C
ATOM	8667	NZ	LYS	C	347	29.327	30.899	67.593	1.00	44.06	N
ATOM	8668	C	LYS	C	347	35.114	31.483	64.107	1.00	31.93	C
ATOM	8669	O	LYS	C	347	35.476	32.205	63.179	1.00	33.36	O
ATOM	8670	N	LEU	C	348	35.579	30.254	64.300	1.00	31.88	N
ATOM	8671	CA	LEU	C	348	36.566	29.645	63.417	1.00	31.43	C
ATOM	8672	CB	LEU	C	348	37.211	28.432	64.100	1.00	31.19	C
ATOM	8673	CG	LEU	C	348	38.273	27.646	63.318	1.00	32.95	C
ATOM	8674	CD1	LEU	C	348	39.596	28.406	63.257	1.00	31.00	C
ATOM	8675	CD2	LEU	C	348	38.470	26.255	63.926	1.00	33.21	C
ATOM	8676	C	LEU	C	348	35.959	29.251	62.066	1.00	32.39	C
ATOM	8677	O	LEU	C	348	36.561	29.482	61.017	1.00	30.78	O
ATOM	8678	N	HIS	C	349	34.763	28.670	62.096	1.00	30.08	N

ATOM	8679	CA	HIS	C	349	34.138	28.150	60.882	1.00	32.82	C
ATOM	8680	CB	HIS	C	349	33.371	26.864	61.194	1.00	34.71	C
ATOM	8681	CG	HIS	C	349	34.265	25.747	61.633	1.00	35.14	C
ATOM	8682	ND1	HIS	C	349	35.007	24.998	60.744	1.00	35.01	N
ATOM	8683	CE1	HIS	C	349	35.722	24.109	61.411	1.00	33.83	C
ATOM	8684	NE2	HIS	C	349	35.481	24.262	62.700	1.00	34.38	N
ATOM	8685	CD2	HIS	C	349	34.578	25.285	62.867	1.00	35.31	C
ATOM	8686	C	HIS	C	349	33.286	29.186	60.151	1.00	34.74	C
ATOM	8687	O	HIS	C	349	32.824	30.163	60.748	1.00	39.52	O
ATOM	8688	N	ILE	C	350	33.112	28.976	58.849	1.00	34.38	N
ATOM	8689	CA	ILE	C	350	32.423	29.933	57.984	1.00	35.22	C
ATOM	8690	CB	ILE	C	350	33.401	30.557	56.942	1.00	37.53	C
ATOM	8691	CG1	ILE	C	350	34.066	29.473	56.080	1.00	36.30	C
ATOM	8692	CD1	ILE	C	350	34.379	29.917	54.659	1.00	37.14	C
ATOM	8693	CG2	ILE	C	350	34.449	31.432	57.630	1.00	37.38	C
ATOM	8694	C	ILE	C	350	31.227	29.302	57.280	1.00	35.44	C
ATOM	8695	O	ILE	C	350	31.176	28.086	57.085	1.00	35.53	O
ATOM	8696	N	SER	C	351	30.268	30.142	56.907	1.00	39.33	N
ATOM	8697	CA	SER	C	351	29.083	29.699	56.187	1.00	42.04	C
ATOM	8698	CB	SER	C	351	27.856	30.495	56.643	1.00	44.97	C
ATOM	8699	OG	SER	C	351	27.483	30.139	57.964	1.00	49.58	O
ATOM	8700	C	SER	C	351	29.279	29.866	54.682	1.00	41.12	C
ATOM	8701	O	SER	C	351	29.916	30.827	54.241	1.00	38.64	O
ATOM	8702	N	PRO	C	352	28.726	28.943	53.893	1.00	40.74	N
ATOM	8703	CA	PRO	C	352	28.739	29.087	52.432	1.00	40.60	C
ATOM	8704	CB	PRO	C	352	28.213	27.739	51.940	1.00	39.61	C
ATOM	8705	CG	PRO	C	352	27.381	27.214	53.066	1.00	40.32	C
ATOM	8706	CD	PRO	C	352	28.033	27.712	54.325	1.00	40.29	C
ATOM	8707	C	PRO	C	352	27.796	30.207	52.003	1.00	42.80	C
ATOM	8708	O	PRO	C	352	26.869	30.539	52.746	1.00	42.50	O
ATOM	8709	N	SER	C	353	28.040	30.790	50.834	1.00	44.13	N
ATOM	8710	CA	SER	C	353	27.136	31.791	50.280	1.00	47.20	C
ATOM	8711	CB	SER	C	353	27.886	32.748	49.348	1.00	48.01	C
ATOM	8712	OG	SER	C	353	28.079	32.181	48.064	1.00	46.91	O
ATOM	8713	C	SER	C	353	25.988	31.092	49.552	1.00	47.59	C
ATOM	8714	O	SER	C	353	26.013	29.874	49.362	1.00	44.88	O
ATOM	8715	N	ASN	C	354	24.983	31.864	49.151	1.00	50.60	N
ATOM	8716	CA	ASN	C	354	23.834	31.317	48.434	1.00	53.75	C
ATOM	8717	CB	ASN	C	354	22.543	32.058	48.830	1.00	58.82	C
ATOM	8718	CG	ASN	C	354	22.484	33.485	48.294	1.00	63.28	C
ATOM	8719	OD1	ASN	C	354	21.541	33.852	47.593	1.00	65.63	O
ATOM	8720	ND2	ASN	C	354	23.484	34.297	48.635	1.00	64.34	N
ATOM	8721	C	ASN	C	354	24.028	31.272	46.911	1.00	51.90	C
ATOM	8722	O	ASN	C	354	23.063	31.094	46.159	1.00	53.56	O
ATOM	8723	N	MET	C	355	25.279	31.419	46.471	1.00	47.81	N
ATOM	8724	CA	MET	C	355	25.629	31.392	45.049	1.00	42.74	C
ATOM	8725	CB	MET	C	355	27.113	31.739	44.839	1.00	42.75	C
ATOM	8726	CG	MET	C	355	28.087	30.576	45.032	1.00	42.95	C
ATOM	8727	SD	MET	C	355	29.830	31.033	44.824	1.00	44.30	S
ATOM	8728	CE	MET	C	355	29.842	31.629	43.113	1.00	44.66	C
ATOM	8729	C	MET	C	355	25.290	30.052	44.397	1.00	38.21	C
ATOM	8730	O	MET	C	355	25.333	29.000	45.046	1.00	35.04	O
ATOM	8731	N	THR	C	356	24.953	30.108	43.113	1.00	38.49	N
ATOM	8732	CA	THR	C	356	24.567	28.922	42.358	1.00	41.03	C
ATOM	8733	CB	THR	C	356	23.717	29.309	41.106	1.00	46.21	C
ATOM	8734	OG1	THR	C	356	23.943	28.371	40.044	1.00	51.18	O
ATOM	8735	CG2	THR	C	356	24.181	30.635	40.505	1.00	48.29	C
ATOM	8736	C	THR	C	356	25.791	28.087	41.969	1.00	38.27	C
ATOM	8737	O	THR	C	356	26.792	28.621	41.488	1.00	32.56	O
ATOM	8738	N	ASN	C	357	25.702	26.782	42.206	1.00	35.95	N
ATOM	8739	CA	ASN	C	357	26.700	25.839	41.720	1.00	34.19	C
ATOM	8740	CB	ASN	C	357	26.577	24.506	42.467	1.00	33.24	C
ATOM	8741	CG	ASN	C	357	27.685	23.519	42.114	1.00	34.86	C

ATOM	8742	OD1	ASN	C	357	28.522	23.775	41.245	1.00	31.99	O
ATOM	8743	ND2	ASN	C	357	27.688	22.378	42.793	1.00	34.38	N
ATOM	8744	C	ASN	C	357	26.507	25.641	40.223	1.00	35.33	C
ATOM	8745	O	ASN	C	357	25.493	25.092	39.793	1.00	34.28	O
ATOM	8746	N	GLN	C	358	27.474	26.097	39.427	1.00	29.79	N
ATOM	8747	CA	GLN	C	358	27.360	25.999	37.972	1.00	28.78	C
ATOM	8748	CB	GLN	C	358	28.080	27.164	37.276	1.00	32.26	C
ATOM	8749	CG	GLN	C	358	27.583	28.557	37.675	1.00	40.52	C
ATOM	8750	CD	GLN	C	358	26.236	28.933	37.062	1.00	45.27	C
ATOM	8751	OE1	GLN	C	358	25.571	29.853	37.544	1.00	48.83	O
ATOM	8752	NE2	GLN	C	358	25.839	28.237	36.002	1.00	46.22	N
ATOM	8753	C	GLN	C	358	27.822	24.651	37.404	1.00	30.32	C
ATOM	8754	O	GLN	C	358	27.724	24.419	36.196	1.00	32.38	O
ATOM	8755	N	ASN	C	359	28.312	23.771	38.277	1.00	26.38	N
ATOM	8756	CA	ASN	C	359	28.700	22.418	37.894	1.00	27.23	C
ATOM	8757	CB	ASN	C	359	29.773	21.875	38.840	1.00	27.10	C
ATOM	8758	CG	ASN	C	359	31.009	22.740	38.880	1.00	29.36	C
ATOM	8759	OD1	ASN	C	359	31.103	23.678	39.679	1.00	33.70	O
ATOM	8760	ND2	ASN	C	359	31.963	22.437	38.016	1.00	27.64	N
ATOM	8761	C	ASN	C	359	27.498	21.480	37.934	1.00	28.33	C
ATOM	8762	O	ASN	C	359	27.092	21.042	39.013	1.00	31.39	O
ATOM	8763	N	THR	C	360	26.943	21.167	36.767	1.00	26.04	N
ATOM	8764	CA	THR	C	360	25.796	20.255	36.679	1.00	26.73	C
ATOM	8765	CB	THR	C	360	25.187	20.252	35.260	1.00	24.65	C
ATOM	8766	OG1	THR	C	360	26.157	19.767	34.326	1.00	27.73	O
ATOM	8767	CG2	THR	C	360	24.883	21.662	34.769	1.00	27.93	C
ATOM	8768	C	THR	C	360	26.220	18.832	37.048	1.00	26.70	C
ATOM	8769	O	THR	C	360	27.375	18.456	36.841	1.00	21.46	O
ATOM	8770	N	PRO	C	361	25.299	18.036	37.595	1.00	25.02	N
ATOM	8771	CA	PRO	C	361	25.581	16.623	37.866	1.00	24.96	C
ATOM	8772	CB	PRO	C	361	24.211	16.071	38.265	1.00	24.81	C
ATOM	8773	CG	PRO	C	361	23.499	17.242	38.834	1.00	26.04	C
ATOM	8774	CD	PRO	C	361	23.945	18.422	38.037	1.00	25.45	C
ATOM	8775	C	PRO	C	361	26.117	15.889	36.636	1.00	24.79	C
ATOM	8776	O	PRO	C	361	27.016	15.065	36.786	1.00	27.05	O
ATOM	8777	N	GLU	C	362	25.581	16.192	35.451	1.00	24.05	N
ATOM	8778	CA	GLU	C	362	26.018	15.557	34.207	1.00	25.65	C
ATOM	8779	CB	GLU	C	362	25.118	15.980	33.044	1.00	29.94	C
ATOM	8780	CG	GLU	C	362	25.454	15.332	31.708	1.00	34.93	C
ATOM	8781	CD	GLU	C	362	24.667	15.925	30.549	1.00	40.08	C
ATOM	8782	OE1	GLU	C	362	24.340	15.163	29.614	1.00	41.88	O
ATOM	8783	OE2	GLU	C	362	24.378	17.145	30.567	1.00	38.41	O
ATOM	8784	C	GLU	C	362	27.487	15.892	33.903	1.00	27.87	C
ATOM	8785	O	GLU	C	362	28.279	15.001	33.593	1.00	27.18	O
ATOM	8786	N	TYR	C	363	27.828	17.175	34.011	1.00	26.45	N
ATOM	8787	CA	TYR	C	363	29.203	17.646	33.826	1.00	29.99	C
ATOM	8788	CB	TYR	C	363	29.271	19.166	34.009	1.00	33.11	C
ATOM	8789	CG	TYR	C	363	30.672	19.731	33.921	1.00	35.45	C
ATOM	8790	CD1	TYR	C	363	31.384	20.061	35.076	1.00	38.97	C
ATOM	8791	CE1	TYR	C	363	32.681	20.576	35.002	1.00	38.23	C
ATOM	8792	CZ	TYR	C	363	33.269	20.762	33.759	1.00	41.41	C
ATOM	8793	OH	TYR	C	363	34.546	21.266	33.674	1.00	40.86	O
ATOM	8794	CE2	TYR	C	363	32.581	20.435	32.598	1.00	40.33	C
ATOM	8795	CD2	TYR	C	363	31.289	19.922	32.685	1.00	38.07	C
ATOM	8796	C	TYR	C	363	30.188	16.941	34.768	1.00	28.66	C
ATOM	8797	O	TYR	C	363	31.201	16.399	34.321	1.00	29.10	O
ATOM	8798	N	MET	C	364	29.870	16.937	36.062	1.00	24.40	N
ATOM	8799	CA	MET	C	364	30.709	16.325	37.093	1.00	27.10	C
ATOM	8800	CB	BMET	C	364	30.142	16.602	38.489	0.35	25.63	C
ATOM	8801	CB	AMET	C	364	30.112	16.573	38.485	0.65	29.18	C
ATOM	8802	CG	BMET	C	364	30.017	18.082	38.821	0.35	24.55	C
ATOM	8803	CG	AMET	C	364	30.108	18.032	38.920	0.65	31.47	C
ATOM	8804	SD	BMET	C	364	29.861	18.393	40.580	0.35	24.51	S

ATOM	8805	SD	AMET	C	364	31.777	18.701	39.052	0.65	36.22	S
ATOM	8806	CE	BMET	C	364	28.066	18.300	40.786	0.35	25.88	C
ATOM	8807	CE	AMET	C	364	32.225	18.150	40.670	0.65	36.05	C
ATOM	8808	C	MET	C	364	30.886	14.825	36.879	1.00	30.02	C
ATOM	8809	O	MET	C	364	31.977	14.287	37.075	1.00	32.87	O
ATOM	8810	N	GLU	C	365	29.810	14.158	36.471	1.00	28.55	N
ATOM	8811	CA	GLU	C	365	29.842	12.724	36.222	1.00	34.09	C
ATOM	8812	CB	GLU	C	365	28.420	12.180	36.016	1.00	38.22	C
ATOM	8813	CG	GLU	C	365	28.287	10.670	36.176	1.00	48.60	C
ATOM	8814	CD	GLU	C	365	28.743	10.166	37.536	1.00	53.71	C
ATOM	8815	OE1	GLU	C	365	29.303	9.049	37.595	1.00	57.35	O
ATOM	8816	OE2	GLU	C	365	28.543	10.879	38.546	1.00	56.65	O
ATOM	8817	C	GLU	C	365	30.723	12.396	35.022	1.00	29.29	C
ATOM	8818	O	GLU	C	365	31.505	11.445	35.072	1.00	30.73	O
ATOM	8819	N	LYS	C	366	30.592	13.193	33.961	1.00	31.30	N
ATOM	8820	CA	LYS	C	366	31.352	12.996	32.727	1.00	32.64	C
ATOM	8821	CB	LYS	C	366	30.895	13.976	31.633	1.00	38.20	C
ATOM	8822	CG	LYS	C	366	29.617	13.600	30.857	1.00	46.84	C
ATOM	8823	CD	LYS	C	366	29.226	12.129	30.987	1.00	51.40	C
ATOM	8824	CE	LYS	C	366	29.388	11.389	29.669	1.00	54.94	C
ATOM	8825	NZ	LYS	C	366	29.285	9.917	29.859	1.00	55.32	N
ATOM	8826	C	LYS	C	366	32.857	13.142	32.973	1.00	30.07	C
ATOM	8827	O	LYS	C	366	33.652	12.345	32.467	1.00	27.35	O
ATOM	8828	N	ILE	C	367	33.243	14.158	33.746	1.00	24.90	N
ATOM	8829	CA	ILE	C	367	34.660	14.372	34.078	1.00	26.40	C
ATOM	8830	CB	ILE	C	367	34.891	15.755	34.774	1.00	25.26	C
ATOM	8831	CG1	ILE	C	367	34.304	16.915	33.946	1.00	25.22	C
ATOM	8832	CD1	ILE	C	367	35.006	17.238	32.633	1.00	29.95	C
ATOM	8833	CG2	ILE	C	367	36.387	15.967	35.112	1.00	24.89	C
ATOM	8834	C	ILE	C	367	35.196	13.227	34.937	1.00	27.55	C
ATOM	8835	O	ILE	C	367	36.252	12.656	34.637	1.00	30.22	O
ATOM	8836	N	LYS	C	368	34.462	12.896	35.998	1.00	26.55	N
ATOM	8837	CA	LYS	C	368	34.800	11.778	36.877	1.00	30.59	C
ATOM	8838	CB	LYS	C	368	33.699	11.591	37.925	1.00	33.67	C
ATOM	8839	CG	LYS	C	368	34.119	10.862	39.187	1.00	43.17	C
ATOM	8840	CD	LYS	C	368	33.019	10.916	40.249	1.00	48.23	C
ATOM	8841	CE	LYS	C	368	32.136	9.671	40.208	1.00	53.08	C
ATOM	8842	NZ	LYS	C	368	32.408	8.746	41.349	1.00	56.41	N
ATOM	8843	C	LYS	C	368	35.000	10.492	36.068	1.00	31.49	C
ATOM	8844	O	LYS	C	368	35.991	9.780	36.255	1.00	28.13	O
ATOM	8845	N	GLN	C	369	34.071	10.221	35.153	1.00	34.61	N
ATOM	8846	CA	GLN	C	369	34.142	9.037	34.293	1.00	37.01	C
ATOM	8847	CB	GLN	C	369	32.930	8.972	33.360	1.00	42.79	C
ATOM	8848	CG	GLN	C	369	31.756	8.179	33.923	1.00	49.74	C
ATOM	8849	CD	GLN	C	369	30.649	7.955	32.900	1.00	53.23	C
ATOM	8850	OE1	GLN	C	369	30.807	7.163	31.967	1.00	53.94	O
ATOM	8851	NE2	GLN	C	369	29.528	8.648	33.075	1.00	55.10	N
ATOM	8852	C	GLN	C	369	35.438	8.990	33.480	1.00	35.42	C
ATOM	8853	O	GLN	C	369	36.113	7.958	33.439	1.00	36.55	O
ATOM	8854	N	ARG	C	370	35.779	10.111	32.847	1.00	32.88	N
ATOM	8855	CA	ARG	C	370	36.987	10.215	32.029	1.00	34.79	C
ATOM	8856	CB	ARG	C	370	37.017	11.548	31.271	1.00	37.55	C
ATOM	8857	CG	ARG	C	370	38.335	11.841	30.552	1.00	43.62	C
ATOM	8858	CD	ARG	C	370	38.447	11.230	29.159	1.00	48.26	C
ATOM	8859	NE	ARG	C	370	38.075	12.200	28.130	1.00	55.59	N
ATOM	8860	CZ	ARG	C	370	37.273	11.944	27.102	1.00	57.51	C
ATOM	8861	NH1	ARG	C	370	36.998	12.906	26.230	1.00	57.41	N
ATOM	8862	NH2	ARG	C	370	36.748	10.734	26.937	1.00	58.85	N
ATOM	8863	C	ARG	C	370	38.266	10.035	32.849	1.00	32.90	C
ATOM	8864	O	ARG	C	370	39.211	9.388	32.390	1.00	31.24	O
ATOM	8865	N	LEU	C	371	38.290	10.609	34.050	1.00	30.31	N
ATOM	8866	CA	LEU	C	371	39.454	10.522	34.934	1.00	30.07	C
ATOM	8867	CB	LEU	C	371	39.327	11.497	36.115	1.00	32.28	C

ATOM	8868	CG	LEU	C	371	39.523	12.994	35.836	1.00	34.88	C
ATOM	8869	CD1	LEU	C	371	39.585	13.776	37.134	1.00	35.56	C
ATOM	8870	CD2	LEU	C	371	40.772	13.250	35.023	1.00	37.08	C
ATOM	8871	C	LEU	C	371	39.684	9.105	35.442	1.00	30.09	C
ATOM	8872	O	LEU	C	371	40.816	8.626	35.454	1.00	28.26	O
ATOM	8873	N	PHE	C	372	38.608	8.440	35.863	1.00	31.51	N
ATOM	8874	CA	PHE	C	372	38.680	7.037	36.274	1.00	34.04	C
ATOM	8875	CB	PHE	C	372	37.308	6.546	36.755	1.00	37.33	C
ATOM	8876	CG	PHE	C	372	37.113	6.659	38.242	1.00	41.54	C
ATOM	8877	CD1	PHE	C	372	36.951	7.903	38.846	1.00	43.59	C
ATOM	8878	CE1	PHE	C	372	36.773	8.013	40.225	1.00	44.36	C
ATOM	8879	CZ	PHE	C	372	36.755	6.868	41.014	1.00	47.87	C
ATOM	8880	CE2	PHE	C	372	36.915	5.617	40.421	1.00	47.38	C
ATOM	8881	CD2	PHE	C	372	37.096	5.520	39.042	1.00	45.61	C
ATOM	8882	C	PHE	C	372	39.202	6.150	35.141	1.00	32.88	C
ATOM	8883	O	PHE	C	372	39.962	5.209	35.383	1.00	35.67	O
ATOM	8884	N	GLU	C	373	38.799	6.473	33.912	1.00	32.54	N
ATOM	8885	CA	GLU	C	373	39.275	5.789	32.707	1.00	37.04	C
ATOM	8886	CB	GLU	C	373	38.525	6.292	31.468	1.00	40.53	C
ATOM	8887	CG	GLU	C	373	37.171	5.635	31.225	1.00	49.73	C
ATOM	8888	CD	GLU	C	373	36.301	6.402	30.238	1.00	54.59	C
ATOM	8889	OE1	GLU	C	373	36.848	7.143	29.390	1.00	56.54	O
ATOM	8890	OE2	GLU	C	373	35.059	6.263	30.305	1.00	58.53	O
ATOM	8891	C	GLU	C	373	40.779	5.989	32.511	1.00	36.57	C
ATOM	8892	O	GLU	C	373	41.503	5.043	32.192	1.00	34.92	O
ATOM	8893	N	ASN	C	374	41.240	7.226	32.701	1.00	33.51	N
ATOM	8894	CA	ASN	C	374	42.666	7.544	32.615	1.00	30.80	C
ATOM	8895	CB	ASN	C	374	42.884	9.058	32.672	1.00	31.02	C
ATOM	8896	CG	ASN	C	374	42.389	9.764	31.429	1.00	31.50	C
ATOM	8897	OD1	ASN	C	374	42.218	9.147	30.376	1.00	32.31	O
ATOM	8898	ND2	ASN	C	374	42.149	11.067	31.542	1.00	32.48	N
ATOM	8899	C	ASN	C	374	43.490	6.839	33.683	1.00	30.70	C
ATOM	8900	O	ASN	C	374	44.594	6.357	33.407	1.00	32.78	O
ATOM	8901	N	LEU	C	375	42.939	6.766	34.893	1.00	30.93	N
ATOM	8902	CA	LEU	C	375	43.594	6.109	36.024	1.00	34.20	C
ATOM	8903	CB	LEU	C	375	42.812	6.367	37.314	1.00	35.18	C
ATOM	8904	CG	LEU	C	375	43.266	7.467	38.285	1.00	39.23	C
ATOM	8905	CD1	LEU	C	375	44.305	8.428	37.695	1.00	35.69	C
ATOM	8906	CD2	LEU	C	375	42.061	8.234	38.808	1.00	36.54	C
ATOM	8907	C	LEU	C	375	43.776	4.603	35.823	1.00	37.14	C
ATOM	8908	O	LEU	C	375	44.733	4.020	36.333	1.00	36.46	O
ATOM	8909	N	ARG	C	376	42.862	3.974	35.089	1.00	40.26	N
ATOM	8910	CA	ARG	C	376	42.960	2.531	34.851	1.00	46.56	C
ATOM	8911	CB	ARG	C	376	41.579	1.914	34.554	1.00	50.72	C
ATOM	8912	CG	ARG	C	376	41.183	1.833	33.090	1.00	57.54	C
ATOM	8913	CD	ARG	C	376	40.602	0.481	32.683	1.00	63.53	C
ATOM	8914	NE	ARG	C	376	39.169	0.378	32.964	1.00	66.74	N
ATOM	8915	CZ	ARG	C	376	38.203	0.782	32.141	1.00	69.78	C
ATOM	8916	NH1	ARG	C	376	38.501	1.330	30.968	1.00	71.02	N
ATOM	8917	NH2	ARG	C	376	36.930	0.641	32.492	1.00	70.27	N
ATOM	8918	C	ARG	C	376	44.028	2.165	33.801	1.00	45.97	C
ATOM	8919	O	ARG	C	376	44.328	0.985	33.599	1.00	47.43	O
ATOM	8920	N	MET	C	377	44.611	3.184	33.167	1.00	44.00	N
ATOM	8921	CA	MET	C	377	45.718	3.011	32.223	1.00	45.62	C
ATOM	8922	CB	MET	C	377	45.779	4.187	31.237	1.00	47.70	C
ATOM	8923	CG	MET	C	377	44.545	4.364	30.355	1.00	51.55	C
ATOM	8924	SD	MET	C	377	44.326	3.054	29.125	1.00	57.23	S
ATOM	8925	CE	MET	C	377	45.639	3.448	27.935	1.00	55.61	C
ATOM	8926	C	MET	C	377	47.091	2.840	32.899	1.00	46.62	C
ATOM	8927	O	MET	C	377	48.071	2.490	32.236	1.00	47.82	O
ATOM	8928	N	LEU	C	378	47.163	3.086	34.208	1.00	46.64	N
ATOM	8929	CA	LEU	C	378	48.432	3.014	34.939	1.00	49.02	C
ATOM	8930	CB	LEU	C	378	48.301	3.640	36.334	1.00	47.46	C

ATOM	8931	CG	LEU	C	378	47.929	5.118	36.529	1.00	48.42	C
ATOM	8932	CD1	LEU	C	378	48.356	5.572	37.922	1.00	46.15	C
ATOM	8933	CD2	LEU	C	378	48.507	6.045	35.462	1.00	45.37	C
ATOM	8934	C	LEU	C	378	48.966	1.583	35.058	1.00	51.02	C
ATOM	8935	O	LEU	C	378	48.212	0.650	35.344	1.00	51.68	O
ATOM	8936	ZN	ZN	C	379	45.073	30.367	43.523	1.00	24.79	ZN
ATOM	8937	NA	NA	C	380	44.126	23.480	42.024	1.00	14.49	NA
ATOM	8938	O3	TSS	C	381	42.639	38.468	39.619	1.00	38.82	O
ATOM	8939	C9	TSS	C	381	43.849	38.536	39.429	1.00	39.14	C
ATOM	8940	C10	TSS	C	381	44.581	39.798	39.814	1.00	39.18	C
ATOM	8941	C11	TSS	C	381	45.878	40.059	39.358	1.00	38.67	C
ATOM	8942	C12	TSS	C	381	46.531	41.236	39.727	1.00	39.06	C
ATOM	8943	C13	TSS	C	381	45.897	42.167	40.559	1.00	39.46	C
ATOM	8944	N2	TSS	C	381	46.548	43.359	40.938	1.00	40.32	N
ATOM	8945	C17	TSS	C	381	45.806	44.435	41.587	1.00	42.42	C
ATOM	8946	C16	TSS	C	381	47.970	43.548	40.681	1.00	42.37	C
ATOM	8947	C14	TSS	C	381	44.602	41.905	41.010	1.00	38.55	C
ATOM	8948	C15	TSS	C	381	43.949	40.730	40.640	1.00	40.81	C
ATOM	8949	C2	TSS	C	381	44.584	37.366	38.816	1.00	38.81	C
ATOM	8950	C1	TSS	C	381	43.837	36.863	37.579	1.00	39.28	C
ATOM	8951	C3	TSS	C	381	44.708	36.223	39.807	1.00	37.07	C
ATOM	8952	C4	TSS	C	381	45.827	35.491	40.008	1.00	34.62	C
ATOM	8953	C5	TSS	C	381	47.088	35.761	39.232	1.00	38.13	C
ATOM	8954	C6	TSS	C	381	45.776	34.396	41.006	1.00	31.96	C
ATOM	8955	C7	TSS	C	381	46.840	33.760	41.508	1.00	32.37	C
ATOM	8956	C8	TSS	C	381	46.662	32.669	42.498	1.00	35.58	C
ATOM	8957	O1	TSS	C	381	45.803	32.772	43.359	1.00	30.40	O
ATOM	8958	N1	TSS	C	381	47.431	31.574	42.442	1.00	41.90	N
ATOM	8959	O2	TSS	C	381	47.022	30.446	42.809	1.00	31.67	O
ATOM	8960	O	HOH	C	382	42.993	41.607	-26.943	1.00	17.67	O
ATOM	8961	O	HOH	C	383	13.666	41.274	-2.996	1.00	20.00	O
ATOM	8962	O	HOH	C	384	42.332	39.904	-45.320	1.00	15.94	O
ATOM	8963	O	HOH	C	385	31.205	29.899	-41.463	1.00	19.49	O
ATOM	8964	O	HOH	C	386	60.974	43.086	-47.606	1.00	18.75	O
ATOM	8965	O	HOH	C	387	4.145	41.659	-7.452	1.00	23.97	O
ATOM	8966	O	HOH	C	388	23.063	28.587	-9.004	1.00	17.44	O
ATOM	8967	O	HOH	C	389	31.835	39.581	-37.715	1.00	20.29	O
ATOM	8968	O	HOH	C	390	50.032	44.968	-27.371	1.00	27.35	O
ATOM	8969	O	HOH	C	391	16.930	38.193	-7.487	1.00	17.91	O
ATOM	8970	O	HOH	C	392	44.482	48.423	-44.477	1.00	17.37	O
ATOM	8971	O	HOH	C	393	14.559	30.476	-10.298	1.00	18.22	O
ATOM	8972	O	HOH	C	394	37.178	44.941	-63.139	1.00	21.87	O
ATOM	8973	O	HOH	C	395	20.640	35.385	-27.785	1.00	22.32	O
ATOM	8974	O	HOH	C	396	36.917	43.486	-29.902	1.00	18.98	O
ATOM	8975	O	HOH	C	397	53.315	44.022	-53.158	1.00	21.82	O
ATOM	8976	O	HOH	C	398	8.773	24.561	10.462	1.00	23.82	O
ATOM	8977	O	HOH	C	399	44.467	39.317	-30.469	1.00	19.02	O
ATOM	8978	O	HOH	C	400	20.249	36.028	11.372	1.00	20.34	O
ATOM	8979	O	HOH	C	401	31.531	34.563	-48.224	1.00	20.80	O
ATOM	8980	O	HOH	C	402	30.759	30.050	13.559	1.00	30.88	O
ATOM	8981	O	HOH	C	403	17.178	36.489	5.166	1.00	19.83	O
ATOM	8982	O	HOH	C	404	-0.414	42.258	15.077	1.00	33.13	O
ATOM	8983	O	HOH	C	405	4.701	27.638	6.762	1.00	18.04	O
ATOM	8984	O	HOH	C	406	37.773	46.945	-23.792	1.00	22.34	O
ATOM	8985	O	HOH	C	407	52.789	34.606	51.060	1.00	32.51	O
ATOM	8986	O	HOH	C	408	8.687	18.768	19.372	1.00	20.89	O
ATOM	8987	O	HOH	C	409	13.156	28.878	4.503	1.00	18.67	O
ATOM	8988	O	HOH	C	410	36.558	30.614	46.062	1.00	22.17	O
ATOM	8989	O	HOH	C	411	25.853	32.064	-36.930	1.00	21.91	O
ATOM	8990	O	HOH	C	412	45.889	34.872	-23.168	1.00	22.04	O
ATOM	8991	O	HOH	C	413	30.162	42.356	-30.344	1.00	31.65	O
ATOM	8992	O	HOH	C	414	52.916	13.408	34.015	1.00	22.20	O
ATOM	8993	O	HOH	C	415	42.737	27.562	36.837	1.00	23.67	O

ATOM	8994	O	HOH C 416	19.420	19.280	-17.451	1.00	23.01	O
ATOM	8995	O	HOH C 417	30.894	26.627	-18.908	1.00	29.48	O
ATOM	8996	O	HOH C 418	59.962	29.204	31.923	1.00	25.04	O
ATOM	8997	O	HOH C 419	18.193	11.802	-11.724	1.00	21.16	O
ATOM	8998	O	HOH C 420	41.923	47.426	-17.542	1.00	23.28	O
ATOM	8999	O	HOH C 421	48.825	35.141	-24.253	1.00	23.03	O
ATOM	9000	O	HOH C 422	29.948	39.995	-50.957	1.00	21.16	O
ATOM	9001	O	HOH C 423	8.711	48.206	0.296	1.00	25.11	O
ATOM	9002	O	HOH C 424	17.149	15.518	-18.185	1.00	24.36	O
ATOM	9003	O	HOH C 425	13.308	38.098	-29.537	1.00	29.63	O
ATOM	9004	O	HOH C 426	44.173	52.236	-47.273	1.00	24.41	O
ATOM	9005	O	HOH C 427	27.223	35.446	-20.105	1.00	25.18	O
ATOM	9006	O	HOH C 428	-1.597	16.299	13.373	1.00	40.01	O
ATOM	9007	O	HOH C 429	40.177	23.332	44.113	1.00	26.07	O
ATOM	9008	O	HOH C 430	35.707	48.724	-24.559	1.00	22.87	O
ATOM	9009	O	HOH C 431	16.249	43.174	4.263	1.00	32.42	O
ATOM	9010	O	HOH C 432	8.421	27.391	11.431	1.00	22.85	O
ATOM	9011	O	HOH C 433	56.933	41.544	-53.866	1.00	25.84	O
ATOM	9012	O	HOH C 434	25.462	27.960	-39.633	1.00	22.78	O
ATOM	9013	O	HOH C 435	18.008	19.277	-10.869	1.00	24.54	O
ATOM	9014	O	HOH C 436	46.475	56.682	-29.048	1.00	27.15	O
ATOM	9015	O	HOH C 437	25.787	21.535	-25.063	1.00	27.64	O
ATOM	9016	O	HOH C 438	32.217	22.757	-38.287	1.00	27.97	O
ATOM	9017	O	HOH C 439	17.558	14.059	-9.824	1.00	29.34	O
ATOM	9018	O	HOH C 440	58.495	54.096	-34.032	1.00	26.18	O
ATOM	9019	O	HOH C 441	24.791	34.875	-34.063	1.00	26.90	O
ATOM	9020	O	HOH C 442	27.569	25.194	-42.977	1.00	38.06	O
ATOM	9021	O	HOH C 443	53.651	43.007	-46.571	1.00	26.76	O
ATOM	9022	O	HOH C 444	43.416	57.336	-22.170	1.00	38.02	O
ATOM	9023	O	HOH C 445	19.206	23.337	8.181	1.00	29.68	O
ATOM	9024	O	HOH C 446	69.843	26.413	36.340	1.00	27.48	O
ATOM	9025	O	HOH C 447	58.844	42.593	-45.634	1.00	28.16	O
ATOM	9026	O	HOH C 448	9.602	41.113	-13.834	1.00	26.63	O
ATOM	9027	O	HOH C 449	72.613	32.632	40.578	1.00	43.52	O
ATOM	9028	O	HOH C 450	12.051	9.940	16.135	1.00	25.74	O
ATOM	9029	O	HOH C 451	37.179	33.300	51.761	1.00	28.73	O
ATOM	9030	O	HOH C 452	27.434	20.381	-29.739	1.00	33.54	O
ATOM	9031	O	HOH C 453	28.634	27.292	1.774	1.00	26.97	O
ATOM	9032	O	HOH C 455	57.022	48.085	-36.312	1.00	33.15	O
ATOM	9033	O	HOH C 456	40.035	39.572	55.838	1.00	34.45	O
ATOM	9034	O	HOH C 457	54.026	45.638	-57.353	1.00	24.87	O
ATOM	9035	O	HOH C 458	52.420	42.646	-43.557	1.00	27.73	O
ATOM	9036	O	HOH C 459	36.431	43.743	-22.960	1.00	32.12	O
ATOM	9037	O	HOH C 460	33.923	26.012	58.083	1.00	33.57	O
ATOM	9038	O	HOH C 461	21.429	18.472	-21.586	1.00	29.02	O
ATOM	9039	O	HOH C 463	65.062	28.826	-43.486	1.00	32.73	O
ATOM	9040	O	HOH C 464	27.179	28.812	-11.577	1.00	26.39	O
ATOM	9041	O	HOH C 465	53.858	26.888	58.607	1.00	28.29	O
ATOM	9042	O	HOH C 466	24.527	19.893	-11.439	1.00	32.24	O
ATOM	9043	O	HOH C 467	31.635	32.656	-51.586	1.00	34.93	O
ATOM	9044	O	HOH C 468	45.608	11.199	33.601	1.00	26.92	O
ATOM	9045	O	HOH C 469	63.781	42.701	-18.377	1.00	26.15	O
ATOM	9046	O	HOH C 470	43.594	40.449	49.381	1.00	31.24	O
ATOM	9047	O	HOH C 471	43.830	15.077	33.103	1.00	32.11	O
ATOM	9048	O	HOH C 472	46.452	37.437	50.401	1.00	32.18	O
ATOM	9049	O	HOH C 473	50.487	46.875	-15.427	1.00	27.88	O
ATOM	9050	O	HOH C 474	66.455	31.670	31.215	1.00	36.01	O
ATOM	9051	O	HOH C 475	22.882	29.782	-39.436	1.00	38.99	O
ATOM	9052	O	HOH C 476	7.276	28.070	8.732	1.00	26.38	O
ATOM	9053	O	HOH C 477	5.698	31.073	8.165	1.00	31.60	O
ATOM	9054	O	HOH C 478	61.348	23.792	-40.791	1.00	30.95	O
ATOM	9055	O	HOH C 479	43.207	43.021	-14.505	1.00	43.58	O
ATOM	9056	O	HOH C 480	69.533	26.043	50.093	1.00	37.99	O

ATOM	9057	O	HOH C 481	38.669	31.200	-48.498	1.00	33.86	O
ATOM	9058	O	HOH C 482	6.005	21.610	18.512	1.00	30.48	O
ATOM	9059	O	HOH C 483	17.384	13.499	18.652	1.00	35.98	O
ATOM	9060	O	HOH C 484	14.982	42.681	-16.273	1.00	25.60	O
ATOM	9061	O	HOH C 485	58.072	58.046	-30.377	1.00	32.26	O
ATOM	9062	O	HOH C 486	48.099	18.197	37.103	1.00	29.41	O
ATOM	9063	O	HOH C 487	57.449	31.373	57.296	1.00	37.85	O
ATOM	9064	O	HOH C 488	20.499	32.051	17.827	1.00	26.78	O
ATOM	9065	O	HOH C 489	51.011	36.575	36.018	1.00	33.98	O
ATOM	9066	O	HOH C 490	2.047	15.155	10.069	1.00	24.57	O
ATOM	9067	O	HOH C 491	57.164	49.242	-56.774	1.00	31.69	O
ATOM	9068	O	HOH C 492	52.696	24.824	-42.433	1.00	31.70	O
ATOM	9069	O	HOH C 493	5.818	31.166	-14.164	1.00	34.91	O
ATOM	9070	O	HOH C 494	-6.054	45.515	-4.001	1.00	39.06	O
ATOM	9071	O	HOH C 495	-7.307	26.480	-2.833	1.00	32.15	O
ATOM	9072	O	HOH C 496	24.544	37.259	-16.076	1.00	34.49	O
ATOM	9073	O	HOH C 497	15.948	30.042	-29.992	1.00	29.79	O
ATOM	9074	O	HOH C 498	52.655	52.747	-60.720	1.00	30.26	O
ATOM	9075	O	HOH C 499	26.993	46.746	-50.631	1.00	41.55	O
ATOM	9076	O	HOH C 500	58.908	16.052	33.553	1.00	30.95	O
ATOM	9077	O	HOH C 501	65.541	20.751	45.794	1.00	30.84	O
ATOM	9078	O	HOH C 502	42.577	32.107	-26.332	1.00	32.70	O
ATOM	9079	O	HOH C 503	22.728	23.688	18.872	1.00	30.29	O
ATOM	9080	O	HOH C 504	25.257	34.338	-39.674	1.00	37.21	O
ATOM	9081	O	HOH C 505	58.951	26.373	32.438	1.00	39.66	O
ATOM	9082	O	HOH C 506	-5.227	34.494	-5.616	1.00	40.06	O
ATOM	9083	O	HOH C 507	69.499	36.106	-36.407	1.00	40.14	O
ATOM	9084	O	HOH C 508	56.642	46.245	39.780	1.00	40.53	O
ATOM	9085	O	HOH C 509	41.347	34.491	40.037	1.00	38.19	O
ATOM	9086	O	HOH C 510	-7.541	25.053	3.347	1.00	36.23	O
ATOM	9087	O	HOH C 511	62.253	23.635	-45.177	1.00	45.33	O
ATOM	9088	O	HOH C 512	55.531	35.825	-15.778	1.00	35.64	O
ATOM	9089	O	HOH C 514	17.460	20.463	-8.034	1.00	27.70	O
ATOM	9090	O	HOH C 515	23.256	38.798	-30.953	1.00	47.83	O
ATOM	9091	O	HOH C 516	27.164	33.703	15.710	1.00	48.52	O
ATOM	9092	O	HOH C 517	5.200	2.627	-3.645	1.00	49.55	O
ATOM	9093	O	HOH C 518	-6.818	43.078	4.377	1.00	34.31	O
ATOM	9094	O	HOH C 519	8.659	45.822	14.107	1.00	29.00	O
ATOM	9095	O	HOH C 520	58.581	22.743	-34.796	1.00	35.61	O
ATOM	9096	O	HOH C 521	1.946	47.658	-5.653	1.00	34.92	O
ATOM	9097	O	HOH C 522	65.223	41.490	46.641	1.00	36.87	O
ATOM	9098	O	HOH C 523	64.201	45.178	-42.157	1.00	31.56	O
ATOM	9099	O	HOH C 524	60.388	56.867	-21.290	1.00	39.05	O
ATOM	9100	O	HOH C 525	48.190	37.078	-14.738	1.00	48.06	O
ATOM	9101	O	HOH C 526	65.468	30.537	-51.480	1.00	47.78	O
ATOM	9102	O	HOH C 527	65.284	24.486	-39.491	1.00	48.15	O
ATOM	9103	O	HOH C 528	16.522	34.952	-37.456	1.00	44.72	O
ATOM	9104	O	HOH C 529	40.263	35.969	-19.463	1.00	33.91	O
ATOM	9105	O	HOH C 530	-4.753	38.703	-4.856	1.00	38.61	O
ATOM	9106	O	HOH C 531	23.309	39.654	-25.166	1.00	56.03	O
ATOM	9107	O	HOH C 532	42.244	33.288	-64.629	1.00	53.49	O
ATOM	9108	O	HOH C 533	41.527	51.895	-16.477	1.00	38.62	O
ATOM	9109	O	HOH C 534	15.981	30.595	20.424	1.00	49.04	O
ATOM	9110	O	HOH C 535	47.703	22.013	31.417	1.00	37.87	O
ATOM	9111	O	HOH C 536	28.418	41.385	-55.613	1.00	39.33	O
ATOM	9112	O	HOH C 537	51.300	42.582	50.169	1.00	34.75	O
ATOM	9113	O	HOH C 538	72.070	32.603	47.992	1.00	37.78	O
ATOM	9114	O	HOH C 539	64.554	6.239	45.659	1.00	44.01	O
ATOM	9115	O	HOH C 540	62.263	16.457	36.918	1.00	42.37	O
ATOM	9116	O	HOH C 541	0.029	21.907	16.390	1.00	43.42	O
ATOM	9117	O	HOH C 542	8.616	7.344	-15.337	1.00	53.68	O
ATOM	9118	O	HOH C 543	47.137	21.105	-21.290	1.00	34.96	O
ATOM	9119	O	HOH C 544	55.823	27.801	-22.676	1.00	44.07	O

ATOM	9120	O	HOH	C	545	9.970	25.481	19.549	1.00	37.32	O
ATOM	9121	O	HOH	C	546	37.690	37.892	40.945	1.00	55.82	O
ATOM	9122	O	HOH	C	547	7.808	43.009	16.999	1.00	49.27	O
ATOM	9123	O	HOH	C	548	51.269	10.137	58.377	1.00	48.71	O
ATOM	9124	O	HOH	C	549	-0.220	20.040	-7.945	1.00	34.42	O
ATOM	9125	O	HOH	C	550	29.344	19.765	-17.560	1.00	52.22	O
ATOM	9126	O	HOH	C	551	51.558	30.491	50.735	1.00	30.50	O
ATOM	9127	O	HOH	C	552	69.975	37.628	-45.551	1.00	45.55	O
ATOM	9128	O	HOH	C	553	30.707	13.406	15.078	1.00	35.17	O
ATOM	9129	O	HOH	C	554	62.728	8.224	53.667	1.00	39.39	O
ATOM	9130	O	HOH	C	555	40.908	30.651	-16.628	1.00	43.98	O
ATOM	9131	O	HOH	C	556	25.433	13.361	20.867	1.00	51.69	O
ATOM	9132	O	HOH	C	557	61.110	43.343	54.720	1.00	43.96	O
ATOM	9133	O	HOH	C	558	35.929	54.054	-19.720	1.00	41.12	O
ATOM	9134	O	HOH	C	559	40.926	28.519	32.697	1.00	36.71	O
ATOM	9135	O	HOH	C	560	29.727	33.814	-16.315	1.00	51.29	O
ATOM	9136	O	HOH	C	561	12.032	45.912	-5.023	1.00	51.45	O
ATOM	9137	O	HOH	C	562	26.707	38.905	-29.046	1.00	36.88	O
ATOM	9138	O	HOH	C	563	42.476	29.424	-50.344	1.00	34.36	O
ATOM	9139	O	HOH	C	564	26.929	38.382	15.969	1.00	42.65	O
ATOM	9140	O	HOH	C	565	44.153	33.590	31.871	1.00	52.99	O
ATOM	9141	O	HOH	C	566	20.078	8.903	-5.956	1.00	32.32	O
ATOM	9142	O	HOH	C	567	16.330	40.436	-23.255	1.00	45.20	O
ATOM	9143	O	HOH	C	568	62.450	38.034	-29.670	1.00	34.67	O
ATOM	9144	O	HOH	C	569	34.566	25.186	-18.898	1.00	42.79	O
ATOM	9145	O	HOH	C	570	54.308	40.409	36.230	1.00	34.04	O
ATOM	9146	O	HOH	C	571	-1.350	11.336	-6.164	1.00	40.28	O
ATOM	9147	O	HOH	C	572	67.507	34.723	-47.828	1.00	50.31	O
ATOM	9148	O	HOH	C	573	3.844	28.712	17.302	1.00	40.94	O
ATOM	9149	O	HOH	C	574	18.489	8.051	-1.743	1.00	52.32	O
ATOM	9150	O	HOH	C	575	36.692	29.673	-19.227	1.00	41.99	O
ATOM	9151	O	HOH	C	576	51.702	21.862	-39.934	1.00	44.78	O
ATOM	9152	O	HOH	C	577	17.562	41.582	-7.787	1.00	36.67	O
ATOM	9153	O	HOH	C	578	16.734	38.103	17.325	1.00	54.60	O
ATOM	9154	O	HOH	C	579	30.018	46.606	-51.010	1.00	37.68	O
ATOM	9155	O	HOH	C	580	33.546	38.635	-58.059	1.00	43.54	O
ATOM	9156	O	HOH	C	581	38.319	35.374	-64.728	1.00	59.72	O
ATOM	9157	O	HOH	C	582	-1.252	8.491	-0.256	1.00	41.47	O
ATOM	9158	O	HOH	C	583	38.646	20.532	30.047	1.00	43.68	O
ATOM	9159	O	HOH	C	584	-9.044	42.030	-2.839	1.00	51.63	O
ATOM	9160	O	HOH	C	585	7.997	40.826	-17.485	1.00	36.39	O
ATOM	9161	O	HOH	C	586	22.507	46.255	-50.389	1.00	55.11	O
ATOM	9162	O	HOH	C	587	24.895	32.538	18.897	1.00	40.58	O
ATOM	9163	O	HOH	C	588	29.706	24.913	-3.153	1.00	56.40	O
ATOM	9164	O	HOH	C	589	11.251	33.017	-25.336	1.00	38.03	O
ATOM	9165	O	HOH	C	590	38.697	29.084	72.967	1.00	50.30	O
ATOM	9166	O	HOH	C	591	48.156	18.554	-29.768	1.00	35.98	O
ATOM	9167	O	HOH	C	592	23.180	10.741	15.405	1.00	42.07	O
ATOM	9168	O	HOH	C	593	67.612	50.979	-48.853	1.00	60.56	O
ATOM	9169	O	HOH	C	594	64.838	40.850	53.585	1.00	49.06	O
ATOM	9170	O	HOH	C	595	34.481	43.383	-19.555	1.00	56.41	O
ATOM	9171	O	HOH	C	596	58.077	4.835	39.257	1.00	45.60	O
ATOM	9172	O	HOH	C	597	8.735	17.857	-27.231	1.00	55.69	O
ATOM	9173	O	HOH	C	598	51.999	5.561	30.306	1.00	45.82	O
ATOM	9174	O	HOH	C	599	50.741	34.333	-16.568	1.00	38.29	O
ATOM	9175	O	HOH	C	600	23.235	16.349	-21.971	1.00	38.31	O
ATOM	9176	O	HOH	C	601	33.049	18.347	-23.244	1.00	55.03	O
ATOM	9177	O	HOH	C	602	32.954	33.027	60.363	1.00	39.75	O
ATOM	9178	O	HOH	C	603	-9.513	26.371	9.666	1.00	48.18	O
ATOM	9179	O	HOH	C	604	39.492	53.167	-41.512	1.00	40.11	O
ATOM	9180	O	HOH	C	605	43.604	67.840	-14.245	1.00	50.28	O
ATOM	9181	O	HOH	C	606	25.931	6.463	-23.252	1.00	50.33	O
ATOM	9182	O	HOH	C	607	28.449	14.931	2.110	1.00	31.20	O

ATOM	9183	O	HOH	C	608	12.201	50.256	3.893	1.00	42.76	O
ATOM	9184	O	HOH	C	609	39.476	41.789	40.587	1.00	46.15	O
ATOM	9185	O	HOH	C	610	43.801	25.044	28.476	1.00	37.10	O
ATOM	9186	O	HOH	C	611	21.454	4.191	-10.790	1.00	39.05	O
ATOM	9187	O	HOH	C	612	72.142	45.284	39.398	1.00	43.82	O
ATOM	9188	O	HOH	C	613	28.732	20.063	-24.504	1.00	31.77	O
ATOM	9189	O	HOH	C	614	4.829	34.476	15.995	1.00	42.97	O
ATOM	9190	O	HOH	C	615	66.566	22.536	-31.858	1.00	51.04	O
ATOM	9191	O	HOH	C	616	29.251	18.235	29.566	1.00	58.32	O
ATOM	9192	O	HOH	C	617	30.666	45.433	-58.565	1.00	48.65	O
ATOM	9193	O	HOH	C	618	9.099	47.628	-5.680	1.00	41.83	O
ATOM	9194	O	HOH	C	619	42.053	4.334	53.007	1.00	57.04	O
ATOM	9195	O	HOH	C	620	67.225	18.487	45.882	1.00	47.25	O
ATOM	9196	O	HOH	C	621	-1.235	10.514	-10.101	1.00	49.24	O
ATOM	9197	O	HOH	C	622	56.031	51.804	-47.304	1.00	54.42	O
ATOM	9198	O	HOH	C	623	47.977	50.350	-14.341	1.00	35.72	O
ATOM	9199	O	HOH	C	624	9.660	4.657	-11.323	1.00	47.03	O
ATOM	9200	O	HOH	C	625	38.623	20.581	-39.511	1.00	40.81	O
ATOM	9201	O	HOH	C	626	4.404	22.639	-25.240	1.00	50.21	O
ATOM	9202	O	HOH	C	627	69.805	52.013	39.157	1.00	57.57	O
ATOM	9203	O	HOH	C	628	16.442	49.332	4.901	1.00	54.37	O
ATOM	9204	O	HOH	C	629	15.749	44.041	-20.809	1.00	55.68	O
ATOM	9205	O	HOH	C	630	38.559	36.046	-57.246	1.00	53.79	O
ATOM	9206	O	HOH	C	631	66.047	28.144	-27.519	1.00	46.85	O
ATOM	9207	O	HOH	C	632	27.868	35.984	-11.519	1.00	62.89	O
ATOM	9208	O	HOH	C	633	59.484	44.846	61.781	1.00	50.06	O
ATOM	9209	O	HOH	C	634	41.929	26.657	-19.083	1.00	42.01	O
ATOM	9210	O	HOH	C	635	67.013	40.907	-39.062	1.00	59.81	O
ATOM	9211	O	HOH	C	636	31.357	17.300	-27.658	1.00	46.47	O
ATOM	9212	O	HOH	C	637	49.062	20.444	39.006	1.00	35.06	O
ATOM	9213	O	HOH	C	638	24.723	7.557	-16.552	1.00	39.07	O
ATOM	9214	O	HOH	C	639	26.773	16.826	-23.037	1.00	56.73	O
ATOM	9215	O	HOH	C	640	61.021	52.221	-50.275	1.00	47.36	O
ATOM	9216	O	HOH	C	641	33.479	32.749	46.353	1.00	42.07	O
ATOM	9217	O	HOH	C	642	34.459	36.805	60.059	1.00	40.83	O
ATOM	9218	O	HOH	C	643	52.578	53.857	-52.909	1.00	56.57	O
ATOM	9219	O	HOH	C	644	18.109	4.832	8.675	1.00	50.23	O
ATOM	9220	O	HOH	C	645	-5.736	26.139	12.409	1.00	38.83	O
ATOM	9221	O	HOH	C	646	58.517	44.293	51.086	1.00	37.38	O
ATOM	9222	O	HOH	C	647	27.352	38.051	-39.177	1.00	44.71	O
ATOM	9223	O	HOH	C	648	64.509	24.411	-35.092	1.00	36.51	O
ATOM	9224	O	HOH	C	649	31.364	49.031	-27.117	1.00	47.19	O
ATOM	9225	O	HOH	C	650	57.949	50.716	-12.681	1.00	51.79	O
ATOM	9226	O	HOH	C	651	57.245	28.789	73.229	1.00	61.16	O
ATOM	9227	O	HOH	C	652	52.834	-3.284	48.395	1.00	51.25	O
ATOM	9228	O	HOH	C	653	26.287	36.397	-50.912	1.00	48.63	O
ATOM	9229	O	HOH	C	654	-5.827	38.270	14.601	1.00	54.99	O
ATOM	9230	O	HOH	C	655	49.420	-0.487	32.114	1.00	56.90	O
ATOM	9231	O	HOH	C	656	3.170	19.391	-22.771	1.00	54.97	O
ATOM	9232	O	HOH	C	657	24.493	42.075	-28.989	1.00	59.24	O
ATOM	9233	O	HOH	C	658	30.509	35.982	-0.486	1.00	51.93	O
ATOM	9234	O	HOH	C	659	31.480	23.702	-8.486	1.00	49.63	O
ATOM	9235	O	HOH	C	660	58.110	8.993	62.013	1.00	56.97	O
ATOM	9236	O	HOH	C	661	71.925	35.612	48.427	1.00	51.67	O
ATOM	9237	O	HOH	C	662	32.337	22.924	-14.504	1.00	55.86	O
ATOM	9238	O	HOH	C	663	32.982	47.653	-61.694	1.00	56.82	O
ATOM	9239	O	HOH	C	664	54.185	45.827	56.148	1.00	55.79	O
ATOM	9240	O	HOH	C	665	-0.171	7.138	-4.852	1.00	48.57	O
ATOM	9241	O	HOH	C	666	24.478	18.178	-7.616	1.00	47.63	O
ATOM	9242	O	HOH	C	667	26.387	41.713	-41.835	1.00	50.95	O
ATOM	9243	O	HOH	C	668	15.283	49.970	-8.955	1.00	60.41	O
ATOM	9244	O	HOH	C	669	32.532	33.961	53.105	1.00	57.25	O
ATOM	9245	O	HOH	C	670	42.616	45.366	-13.809	1.00	45.10	O

ATOM	9246	O	HOH C 671	23.274	25.328	42.872	1.00	47.39	O
ATOM	9247	O	HOH C 672	66.926	37.156	-33.813	1.00	40.35	O
ATOM	9248	O	HOH C 673	60.208	4.774	48.014	1.00	46.65	O
ATOM	9249	O	HOH C 674	-10.285	18.343	-12.587	1.00	56.29	O
ATOM	9250	O	HOH C 675	41.567	13.128	29.505	1.00	37.25	O
ATOM	9251	O	HOH C 676	2.307	6.135	-6.818	1.00	46.41	O
ATOM	9252	O	HOH C 677	27.042	26.924	45.632	1.00	34.23	O
ATOM	9253	O	HOH C 678	54.939	36.457	64.309	1.00	50.15	O
ATOM	9254	O	HOH C 679	48.379	13.444	64.322	1.00	49.58	O
ATOM	9255	O	HOH C 680	30.493	28.667	-14.999	1.00	44.75	O
ATOM	9256	O	HOH C 681	-8.558	26.615	-0.148	1.00	35.32	O
ATOM	9257	O	HOH C 682	18.478	30.638	21.503	1.00	45.79	O
ATOM	9258	O	HOH C 683	16.722	36.836	12.233	1.00	45.40	O
ATOM	9259	O	HOH C 684	22.062	38.034	10.709	1.00	25.68	O
ATOM	9260	O	HOH C 685	19.515	39.944	4.618	1.00	29.08	O
ATOM	9261	O	HOH C 686	-10.202	35.951	4.908	1.00	49.78	O
ATOM	9262	O	HOH C 687	-6.551	17.469	9.269	1.00	50.81	O
ATOM	9263	O	HOH C 688	-6.071	28.353	11.361	1.00	43.03	O
ATOM	9264	O	HOH C 689	10.433	17.816	21.140	1.00	30.06	O
ATOM	9265	O	HOH C 690	12.372	10.947	5.860	1.00	36.82	O
ATOM	9266	O	HOH C 691	12.844	11.799	8.278	1.00	38.77	O
ATOM	9267	O	HOH C 692	22.364	16.199	-0.328	1.00	34.75	O
ATOM	9268	O	HOH C 693	25.830	14.330	-0.150	1.00	42.15	O
ATOM	9269	O	HOH C 694	27.020	22.091	-5.828	1.00	38.23	O
ATOM	9270	O	HOH C 695	25.351	27.383	-10.025	1.00	25.30	O
ATOM	9271	O	HOH C 696	28.850	23.348	-13.424	1.00	35.22	O
ATOM	9272	O	HOH C 697	27.918	21.112	-12.794	1.00	35.78	O
ATOM	9273	O	HOH C 698	31.331	28.249	3.936	1.00	48.98	O
ATOM	9274	O	HOH C 699	30.532	27.314	6.794	1.00	29.58	O
ATOM	9275	O	HOH C 700	3.623	43.329	-9.405	1.00	33.09	O
ATOM	9276	O	HOH C 701	6.058	47.129	-2.750	1.00	33.68	O
ATOM	9277	O	HOH C 702	10.520	46.596	-1.811	1.00	43.94	O
ATOM	9278	O	HOH C 703	13.669	44.287	4.103	1.00	24.01	O
ATOM	9279	O	HOH C 704	22.411	40.094	-45.443	1.00	30.95	O
ATOM	9280	O	HOH C 705	20.072	34.327	-42.419	1.00	47.24	O
ATOM	9281	O	HOH C 706	26.188	29.080	-41.980	1.00	33.72	O
ATOM	9282	O	HOH C 707	29.497	24.775	50.678	1.00	35.74	O
ATOM	9283	O	HOH C 708	27.427	21.397	50.255	1.00	42.20	O
ATOM	9284	O	HOH C 709	44.772	44.231	67.775	1.00	40.74	O
ATOM	9285	O	HOH C 710	40.982	40.437	53.572	1.00	35.93	O
ATOM	9286	O	HOH C 711	39.752	32.789	51.017	1.00	29.99	O
ATOM	9287	O	HOH C 712	40.163	16.875	63.352	1.00	42.37	O
ATOM	9288	O	HOH C 713	43.583	20.621	-40.933	1.00	48.50	O
ATOM	9289	O	HOH C 714	-3.109	40.919	-4.538	1.00	34.61	O
ATOM	9290	O	HOH C 715	-5.912	47.341	-2.023	1.00	38.85	O
ATOM	9291	O	HOH C 716	-5.711	45.242	3.768	1.00	43.37	O
ATOM	9292	O	HOH C 717	-5.099	47.375	8.540	1.00	37.06	O
ATOM	9293	O	HOH C 718	24.087	34.538	-4.373	1.00	32.99	O
ATOM	9294	O	HOH C 719	13.935	38.803	-1.851	1.00	21.23	O
ATOM	9295	O	HOH C 720	38.499	49.696	-39.899	1.00	33.79	O
ATOM	9296	O	HOH C 721	46.055	54.572	-33.983	1.00	26.48	O
ATOM	9297	O	HOH C 722	34.383	39.923	-36.667	1.00	19.35	O
ATOM	9298	O	HOH C 723	34.763	42.506	-42.406	1.00	14.29	O
ATOM	9299	O	HOH C 724	33.563	45.882	-30.611	1.00	24.96	O
ATOM	9300	O	HOH C 725	29.003	39.985	-30.440	1.00	21.29	O
ATOM	9301	O	HOH C 726	19.485	36.450	-30.013	1.00	35.64	O
ATOM	9302	O	HOH C 727	26.155	43.105	-34.175	1.00	46.58	O
ATOM	9303	O	HOH C 728	37.557	43.189	-20.621	1.00	32.11	O
ATOM	9304	O	HOH C 729	13.658	31.269	-30.791	1.00	33.58	O
ATOM	9305	O	HOH C 730	17.446	17.945	-19.103	1.00	27.11	O
ATOM	9306	O	HOH C 731	54.551	41.883	-54.672	1.00	28.92	O
ATOM	9307	O	HOH C 732	43.325	12.176	33.783	1.00	33.38	O
ATOM	9308	O	HOH C 733	43.021	27.309	34.143	1.00	28.09	O

ATOM	9309	O	HOH C 734	57.432	25.133	36.529	1.00	39.26	O
ATOM	9310	O	HOH C 735	57.536	19.314	31.129	1.00	40.76	O
ATOM	9311	O	HOH C 736	54.139	13.447	36.054	1.00	13.73	O
ATOM	9312	O	HOH C 737	60.852	14.313	33.300	1.00	34.82	O
ATOM	9313	O	HOH C 738	61.207	41.484	-45.803	1.00	12.89	O
ATOM	9314	O	HOH C 739	16.598	11.635	-9.895	1.00	15.74	O
ATOM	9315	O	HOH C 740	15.284	30.418	8.113	1.00	17.10	O

FIGURE 4A

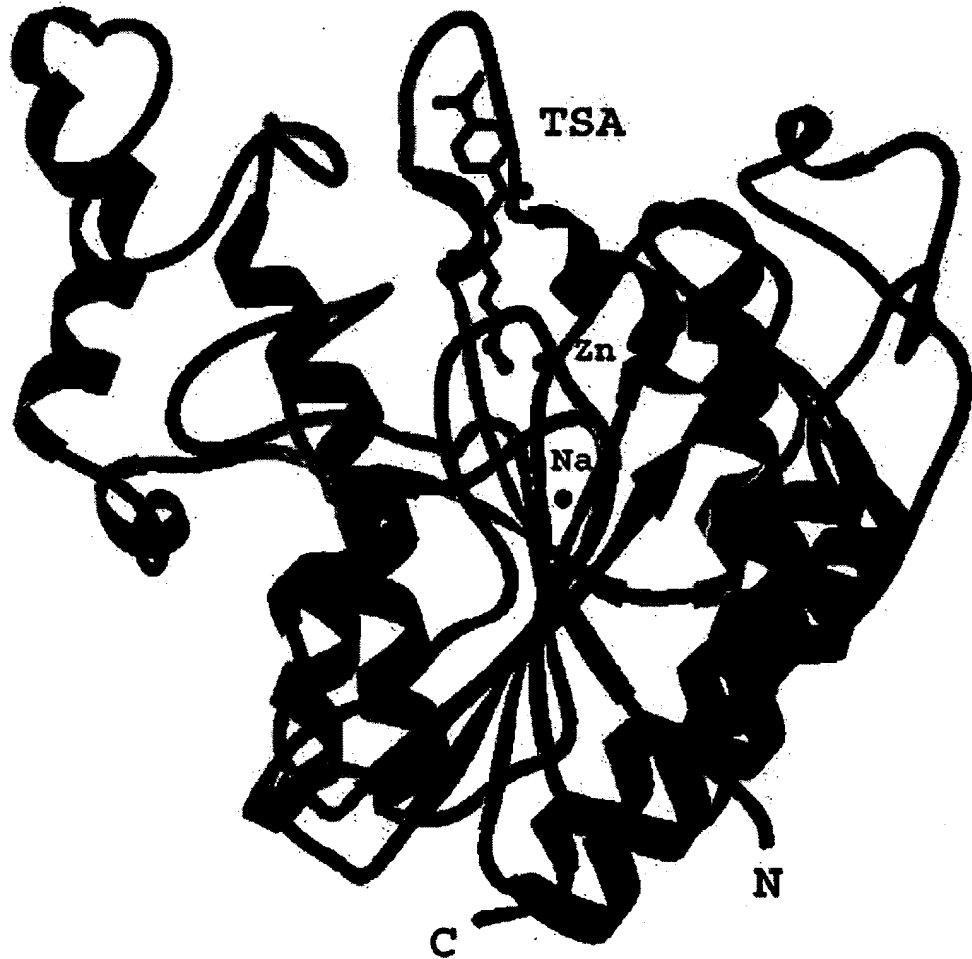


FIGURE 4B

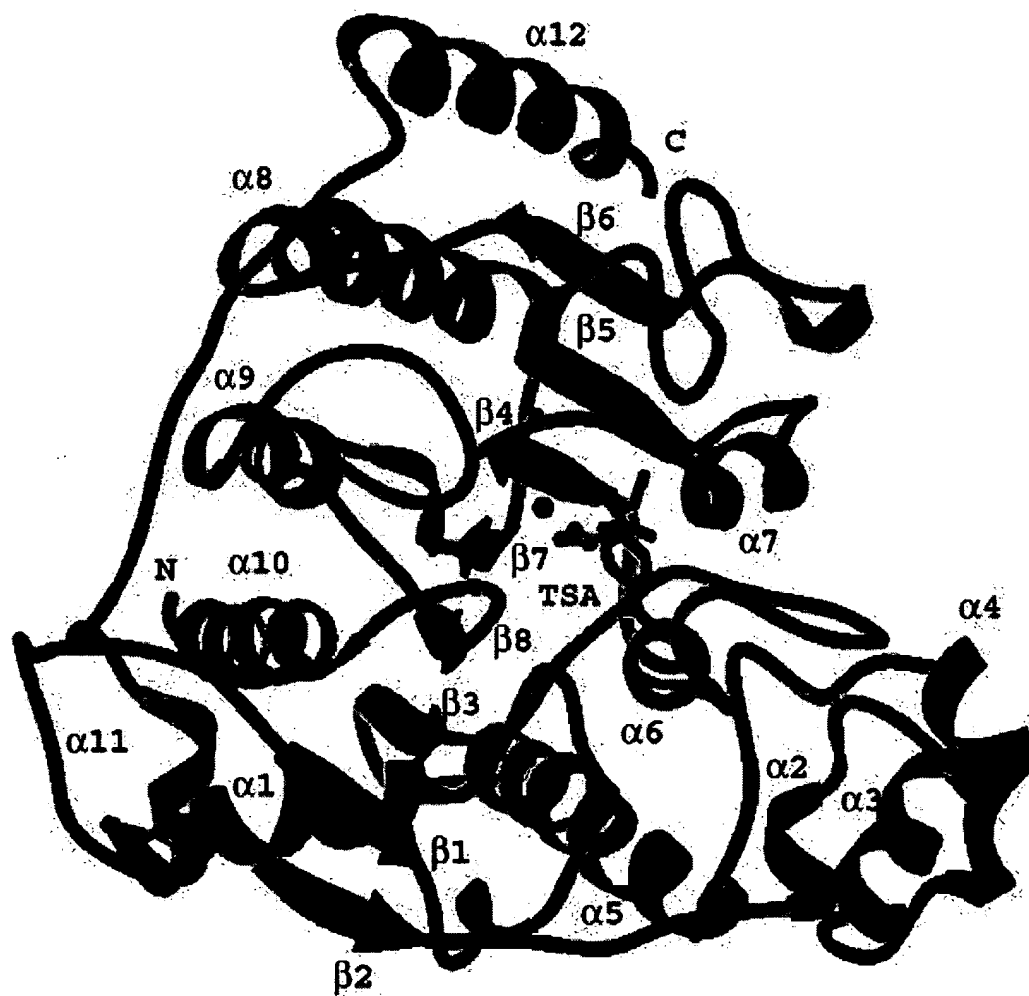


FIGURE 5

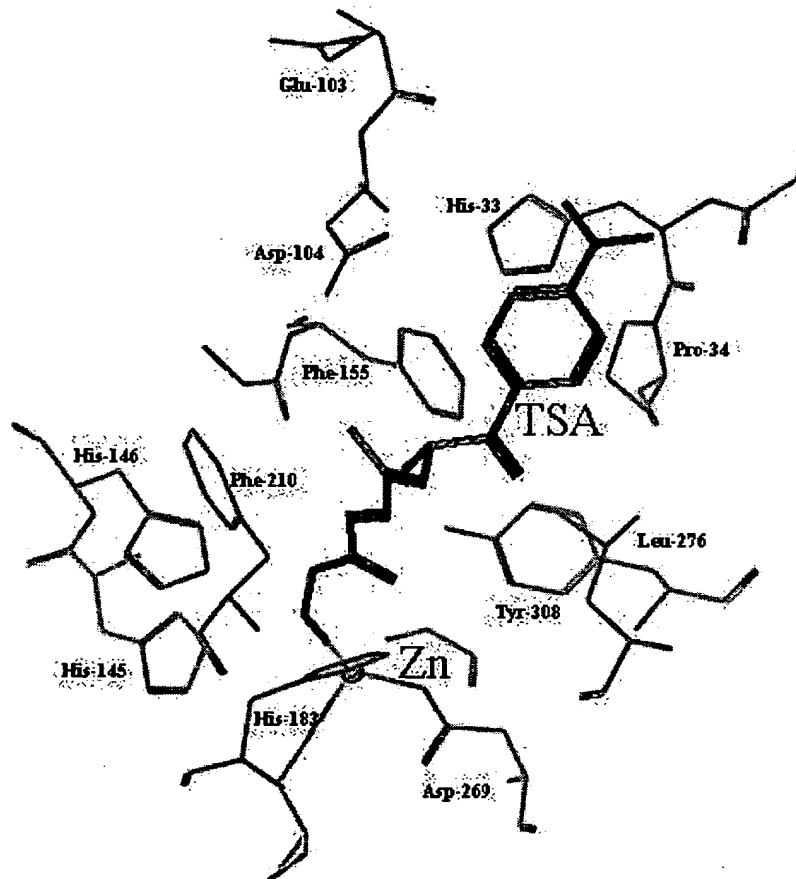


FIGURE 6

